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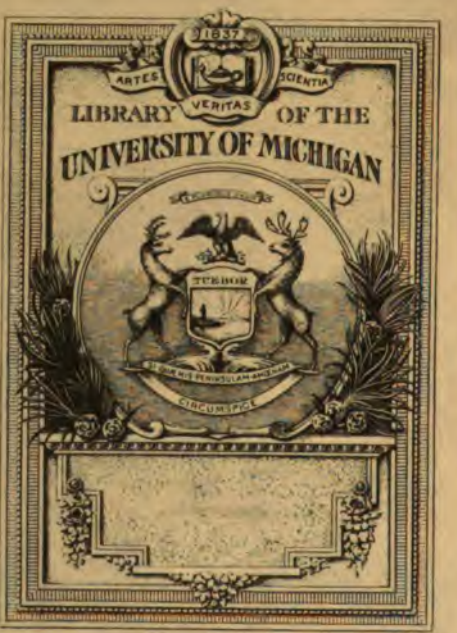
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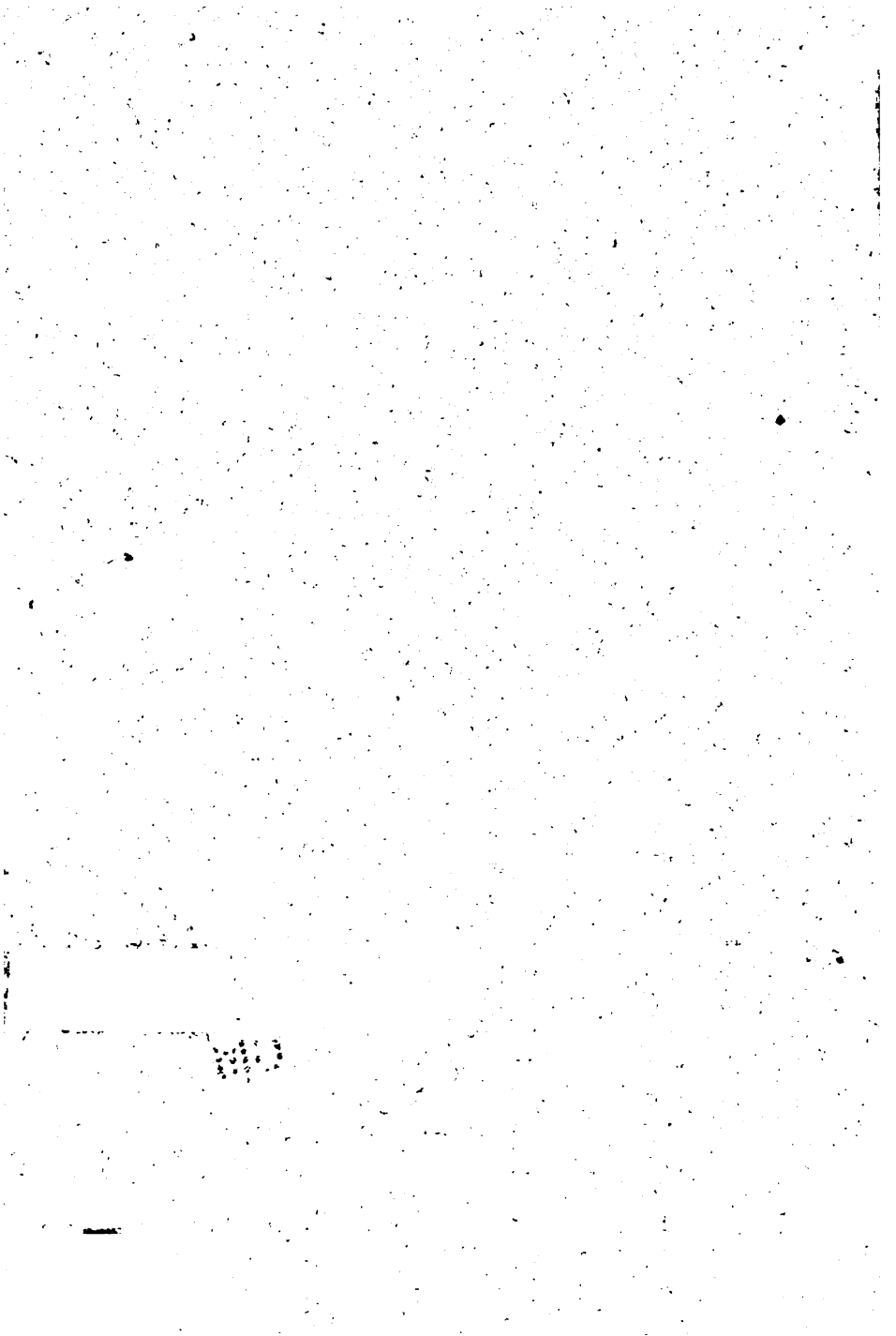

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Robert Foster Volentine,	*Brooklyn, N. Y.*	*Eclectic House.*
Lowell Walcutt,	*Montclair, N. J.*	B. Θ. Π. *House.*
†Ralph Foster Weld,	*Round Lake, N. Y.*	A. X. P. *House.*
†James Isaac Wendell,	*Lake Hopatcong, N. J.*	Δ. T. Δ. *House.*
Harold Ewing Witman,	*Berwick, Pa.*	Δ. K. E. *House.*
Thomas Adamson Wood,	*Bertha, O.*	A. X. P. *House.*
William Colcord Woods,	*Orono, Me.*	X. Ψ. *Lodge.*
†Herbert Brown Wright,	*New York, N. Y.*	Δ. K. E. *House.*

*On leave of absence.

JUNIORS.—CLASS OF 1914.

NAMES.	RESIDENCES.	ROOMS.
† Clinton David Abraham,	*Southern Pines, N. C.*	B Θ. Π. *House.*
Alonzo Clark Allen,	*Gibbstown, N. J.*	*Commons Club.*
Vincent Blake Allison,	*Boston, Mass.*	Δ. T. Δ. *House.*
John Henry Amy,	*East Bangor, Pa.*	*Commons Club.*
Noel Edgar Bensinger,	*Auburn, N. Y.*	*Eclectic House.*
Edward Wayt Bishop,	*Thomasville, N. C.*	Ψ. Υ. *House.*
† Ralph Chesney Bishop,	*Baltimore, Md.*	A. Δ. Φ. *House.*
John Earle Blossom,	*Hawley, Pa.*	B. Θ. Π. *House.*
† George Theron Blydenburgh,	*Richmond Hill, N. Y.*	*Commons Club.*
Raymond Tostevin Bond,	*Richmond Hill, N. Y.*	*99 Broad St.*
† Ralph Ira Booth,	*Ellenville, N. Y.*	Δ. T. Δ. *House.*
Robert Coleman Brown,	*Elmira, N. Y.*	33 N. C.
Wallace John Brymner,	*Springfield, Mass.*	*301 College St.*
William Warren Carman, Jr.,	*Summit, N. J.*	B. Θ. Π. *House.*
† Frank Bonyman Cawley,	*Peabody, Mass.*	Ψ. Υ. *House.*
William George Chanter,	*Detroit, Mich.*	*Eclectic House.*
Silas Skidmore Clark,	*Mt. Vernon, N. Y.*	Δ. K. E. *House.*
Walter Erskine Cooley,	*Springfield, Mass.*	32 N. C.
† William Bethel Cornish,	*Paterson, N. J.*	*Commons Club.*
Howard Reid Craig,	*Lennoxville, P. Q., Canada.*	X. Ψ. *Lodge.*
John Franklin Day,	*Princeton, Me.*	16 N. C.
William Munroe Dox,	*Richmondville, N. Y.*	B. Θ. Π. *House.*
Ralph Olin Dulany,	*Fruitland, Md.*	A. X. P. *House.*
† Edwin Markwick Eustis,	*New York, N. Y.*	A. Δ. Φ. *House.*
Victor Fellini,	*Celano, Italy.*	7 S. C.
John Edwin Fisher,	*Sunapee, N. H.*	A. X. P. *House.*
Joseph Aloysius Francis,	*Dobbs Ferry, N. Y.*	*Eclectic House.*
† George Frederick Freifeld,	*New York, N. Y.*	*Commons Club.*
Joshua Collett Frost,	*Auburn, Me.*	*Eclectic House.*
† Warren Clark Fuller,	*Newton, Mass.*	Ψ. Υ. *House.*
† Russell Irving Garton,	*Midland Park, N. J.*	A. Δ. Φ. *House.*
Randolph Foster Glenn,	*Philipsburg, Pa.*	Δ. K. E. *House.*
† Charles Albert Goodwin,	*Waterville, Me.*	*121 Broad St.*

NAMES.	RESIDENCES.	ROOMS.
Frank Thorpe Gorman,	*Montclair, N. J.*	X. Ψ. *Lodge.*
Raymond Avery Hall,	*Auburn, N. Y.*	*Eclectic House.*
† Hawthorne Parker Halvorson,	*Saugus, Mass.*	Ψ. Υ. *House.*
† Harry Eugene Harris,	*El Paso, Tex.*	Δ. K. E. *House.*
† William Jarvis Harris,	*Montclair, N. J.*	*Eclectic House.*
† James Blood Hasselman,	*Indianapolis, Ind.*	Ψ. Υ. *House.*
Raymond Vincent Hayward,	*Wautoma, Wis.*	Δ. K. E. *House.*
Richard Miner Hewitt,	*Middletown.*	*178 High St.*
Ira Vaughan Hiscock,	*Farmington, Me.*	*Commons Club.*
Robert Porter Holden,	*Clearfield, Pa.*	A. Δ. Φ. *House.*
John Robert Holmes,	*Batavia, N. Y.*	*Eclectic House.*
Albert Hyde Holt,	*Philadelphia, Pa.*	85 N. C.
† Albert Gould Hopkins,	*Pasadena, Cal.*	*Eclectic House.*
Harold Laurence Irving,	*Westfield, N. J.*	A. Δ. Φ. *House.*
† Ira Davis Joel,	*Fitchburg, Mass.*	*167 High St.*
Brewster Hawkins Jones,	*Belleville, N. J.*	18 E. H.
John Sibbits Keir,	*Seymour.*	X. Ψ. *Lodge.*
† James Stephen Kellom,	*Winchester, N. H.*	A. X. P. *House.*
Frank Norris Knapp,	*East Livermore, Me.*	*14 Pleasant St.*
Walter William Kohler,	*Rendham, Pa.*	A. X. P. *House.*
Henry Rudolph Konrad,	*Seymour.*	2 O. H.
Esdras Howell Lowry,	*Scranton, Pa.*	*Commons Club.*
Ira Raymond Lutz,	*Reading, Pa.*	*Commons Club.*
Howard Spencer MacKirdy,	*New Britain.*	7 S. C.
† Paul Preston Martin,	*West Quincy, Mass.*	18 N. C.
Manuel Matienzo,	*Ponce, Porto Rico.*	X. Ψ. *Lodge.*
Lynn Smith Miller,	*Oneonta, N. Y.*	33 N. C.
† Teja Schmauss Mittell,	*New York, N. Y.*	X. Ψ. *Lodge.*
George Lankton Moore,	*Youngstown, O.*	X. Ψ. *Lodge.*
† Lawrence Beatty Morse,	*Boonton, N. J.*	A. Δ. Φ. *House.*
† Herndon Tudor Morsell,	*Washington, D. C.*	A. Δ. Φ. *House.*
† Leroy Beaumont Noble,	*Haddam.*	*Commons Club.*
Arthur Fiske Potter,	*Portland.*	*Commons Club.*
† Herbert Langdon Pratt,	*Newton Center, Mass.*	Δ. K. E. *House.*
Minard Le Grand Proper,	*Middletown.*	*24 Jackson St.*
Albert Sears Pruden,	*Middletown.*	X. Ψ. *Lodge.*
† Edward Ritsher Rau,	*Beloit, Wis.*	18 N. C.
Allen Simmons Raymond,	*Newton Center, Mass.*	Ψ. Υ. *House.*

NAMES.	RESIDENCES.	ROOMS.
John Reeder Reeves,	*New Brunswick, N. J.*	13 O. H.
†Harold Blake Robertson,	*Summit, N. J.*	B. Θ. Π. *House.*
Wilfred Slater Robinson,	*Springfield, Mass.*	X. Ψ. *Lodge.*
George Miles Rogers,	*West Springfield, Mass.*	A. X. P. *House.*
Richard Alfred Rossiter,	*Oswego, N. Y.*	*Commons Club.*
†John Irving Rowell,	*Manchester, N. H.*	A. Δ. Φ. *House.*
†Charles Nathan Rudkin,	*Middletown.*	B. Θ. Π. *House.*
Kendall Ainsworth Sanderson,	*Lynn, Mass.*	*Eclectic House.*
Eugene Wesley Scarborough,	*Madison, N. J.*	Δ. T. Δ. *House.*
Peter Adam Schneider,	*Scranton, Pa.*	X. Ψ. *Lodge.*
Ralph Gordon Sickels,	*Indianapolis, Ind.*	Ψ. Υ. *House.*
†Rodman Moulton Steeb,	*Sparkill, N. Y.*	Δ. T. Δ. *House.*
Floyd Alonzo Stevens,	*Ridgewood, N. J.*	*Commons Club.*
†Horace Bickford Stevens, Jr.,	*El Paso, Tex.*	Δ. K. E. *House.*
†Stewart Niven Storms,	*Dobbs Ferry, N. Y.*	A. X. P. *House.*
Hugh Clark Stuntz,	*Buenos Aires, S. A.*	Δ. T. Δ. *House.*
Francis Albert Sturges,	*Waterport, N. Y.*	94 N. C.
Paul Randolph Sutherland,	*Brooklyn, N. Y.*	*215 South Main St.*
†William Harry Sutton,	*Paterson, N. J.*	*Commons Club.*
†Norman Thirkield,	*New Orleans, La.*	*Eclectic House.*
Randall Jay Thurrell,	*Portland, Me.*	*146 Lincoln St.*
†Frederick William Trevithick,	*Middletown.*	Δ. T. Δ. *House.*
†Henry Hyde True,	*Washington, D. C.*	Δ. K. E. *House.*
Harald Ernest Weinstein,	*Brooklyn, N. Y.*	Ψ. Υ. *House.*
†Allen Dodge Wheeler, Jr.,	*Newton Center, Mass.*	A. Δ. Φ. *House.*
†Ransom Ernest Wilcox,	*New York, N. Y.*	X. Ψ. *Lodge.*
Melville Soule Wilding,	*Newark, N. J.*	Ψ. Υ. *House.*
Harold Purcell Winchester,	*Albany, N. Y.*	Δ. K. E. *House.*
†Hiram Walter Young,	*York, Pa.*	Δ. T. Δ. *House.*
Paul Mortimer Young,	*Sayre, Pa.*	*38 Fountain Ave.*

SOPHOMORES—CLASS OF 1915.

NAMES.	RESIDENCES.	ROOMS.
Frederick Raymond Alleman,	*Summit, N. J.*	83 N. C.
Frank Lawrence Beattys,	*Westfield, N. J.*	83 N. C.
Howard Warren Benedict,	*South Norwalk.*	X. Ψ. *Lodge.*
† Durward Henry Boehm,	*New Britain.*	*78 Home Ave.*
Amos Dickers Bridge,	*Hazardville.*	52 N. C.
Charles Daniel Brodhead,	*Philadelphia, Pa.*	Ψ. Υ. *House.*
John Lee Brooks,	*Middlebury.*	A. Δ. Φ. *House.*
† Kenneth Walton Brown,	*Yonkers, N. Y.*	*146 Lincoln St.*
† Read Hess Brown,	*Binghamton, N. Y.*	72 N. C.
Samuel Harold Buck,	*Campello, Mass.*	Δ. K. E. *House.*
Harold Arthur Burrell,	*Brooklyn, N. Y.*	44 N. C.
† Arthur Thomas Campbell,	*Middletown.*	*148 Washington St.*
Homer Franklin Carey,	*Southington.*	20 E. H.
Lewis James Carey,	*Southington.*	20 E. H.
† Otto Carpenter,	*Upper Troy, N. Y.*	10 O. H.
George Kellas Cashman,	*Waterbury.*	A. X. P. *House.*
Robert Valden Cassidy,	*Webster, Mass.*	Ψ. Υ. *House.*
Rudolph Wilson Chamberlain,	*Auburn, N. Y.*	*Eclectic House.*
Ralph Nelson Clark,	*Springfield, Mass.*	32 N. C.
† Thomas Alfred Courchesne,	*El Paso, Tex.*	Δ. K. E. *House.*
Arthur Randall Davis,	*Fairfield, Me.*	2 O. H.
James Holmes Defandorf,	*Garrett Park, Md.*	Ψ. Υ. *House.*
Glenn K. Diamond,	*Cherry Valley, N. Y.*	B. Θ. Π. *House.*
† Robert Pierson Dodds,	*Port Chester, N. Y.*	16 E. H.
Arthur Clark Eaton,	*Westfield, Mass.*	Δ. K. E. *House.*
Francis Duffy Ellis, Jr.,	*Philadelphia, Pa.*	X. Ψ. *Lodge.*
† Waldo Beattie Farnum,	*New York, N. Y.*	A. Δ. Φ. *House.*
† Daniel Ostrander Ferris,	*Wakefield, Mass.*	89 N. C.
Joseph William Fosa,	*Middletown.*	*448 Main St.*
Elon Foster,	*New York, N. Y.*	Δ. K. E. *House.*
Michael Gerome,	*Newark, N. J.*	A. X. P. *House.*
Edward Carleton Gibbons,	*Salisbury, Mass.*	96 N. C.
† Edward Darwin Graber, Jr.,	*Greenwich.*	A. X. P. *House.*
† William Gammon Greenman,	*Naples, Italy.*	51 N. C.

NAMES.	RESIDENCES.	ROOMS.
Walling Evert Harvey,	*Washington, D. C.*	Ψ. Υ. *House.*
†George Foster Herben,	*Orange, N. J.*	Α. Δ. Φ. *House.*
Wilmer Edgar Herr,	*Flemington, N. J.*	75 N. C.
Elias Wells Hockenbury,	*Pottersville, N. J.*	Α. Χ. Ρ. *House.*
†Willard Earl Honsinger,	*Westfield, Mass.*	Α. Χ. Ρ. *House.*
†Frederick Hupman Hotchkiss,	*Waterbury.*	62 N. C.
†Charles Johnson,	*Bristol.*	Ψ. Υ. *House.*
†Dan Cummins Kenan,	*El Paso, Tex.*	Δ. Κ. Ε. *House.*
Clarence Ketcham,	*Oyster Bay, N. Y.*	*Commons Club.*
†Robert Chipman Kneil,	*Saratoga Springs, N. Y.*	Ψ. Υ. *House.*
Austin Hubbert Kuhns,	*Middletown.*	Ψ. Υ. *House.*
Roland Louis Luerich,	*Newark, N. J.*	Α. Χ. Ρ. *House.*
†Ross Albert MacMullen,	*Brooklyn, N. Y.*	Β. Θ. Π. *House.*
William Bradford Maskiell,	*Long Island City, N. Y.*	*44 Mt. Vernon St.*
Robert Elwood Moore,	*Newark, N. J.*	11 O. H.
†Lawrence Bradford Neeld,	*Crafton, Pa.*	Χ. Ψ. *Lodge.*
Parker Newhall,	*Somerville, Mass.*	44 N. C.
Edward Fenn Nourse,	*Berlin.*	Δ. Τ. Δ. *House.*
Frank Harrison Nye,	*Keene, N. Y.*	*24 Grand St.*
Harry Ray Osgood,	*Greenfield, Mass.*	92 N. C.
David Manker Patten,	*Chattanooga, Tenn.*	98 N. C.
Howard Kistler Petry,	*Wilkes-Barre, Pa.*	*301 College St.*
Albert Irving Prince,	*Chelsea, Mass.*	58 N. C.
John Wesley Prince,	*Fresno, Cal.*	70 N. C.
Stuart Lowell Rich,	*Boston, Mass.*	*Eclectic House.*
Joseph Atherton Richards,	*Honolulu, Hawaii.*	Ψ. Υ. *House.*
Harold Andrew Richmond,	*Norwich.*	Α. Χ. Ρ. *House.*
Daniel Mannix Rowe,	*Portland, Me.*	Δ. Τ. Δ. *House.*
†Roy Adelbert Sampson,	*Dexter, Me.*	*Commons Club.*
†Charles Schlager,	*Binghamton, N. Y.*	71 N. C.
Edward Warren Sine,	*Philadelphia, Pa.*	62 N. C.
†Harold Robert Smart,	*Searsport, Me.*	Α. Χ. Ρ. *House.*
†Hugh Llewellyn Smith,	*Binghamton, N. Y.*	Β. Θ. Π. *House.*
†William Sherman Smith,	*Annandale, N. Y.*	*50 South Main St.*
Charles Francis Stanley,	*Middletown.*	Δ. Κ. Ε. *House.*
George Hawley Stewart,	*Bath, Me.*	18 O. H.
†Walter Richey Stillman,	*Watertown, N. Y.*	Δ. Τ. Δ. *House.*
†Fred Robert Strasburg,	*Rumford, Me.*	*Commons Club.*

NAMES.	RESIDENCES.	ROOMS.
† Joseph Aubrey Sutton,	*Philadelphia, Pa.*	14 O. H.
Charles Hatfield Taft, Jr.,	*Montclair, N. J.*	Δ. T. Δ. *House.*
James Adams Thompson,	*Plattsburg, N. Y.*	A. Δ. Φ. *House.*
Francis Bourne Upham, Jr.,	*Brooklyn, N. Y.*	44 N. C.
† Samuel Hobart Usher,	*Brooklyn, N. Y.*	Δ. T. Δ. *House.*
Samuel Norton Vose,	*Madison, Me.*	A. Δ. Φ. *House.*
† Raymond Brown Waldo,	*Barre, Vt.*	58 N. C.
Howard Boniwell Warren,	*Selbyville, Del.*	96 N. C.
Oakley Emerson Washburn,	*Saugatuck.*	8 N. C.
John Cheney White,	*Auburn, N. Y.*	*Eclectic House.*
Harold Rideout Willoughby,	*North Haverhill, N.H.*	*Commons Club.*
William Harold Winner,	*Wilmington, Del.*	13 O. H.
John Andrew Wood,	*Princeton, N. J.*	Χ. Ψ. *Lodge.*
† James Orville Wood,	*Mapleville, R. I.*	B. Θ. Π. *House.*
† Tracy Wood,	*Nutley, N. J.*	17 E. H.
Harold Abbott Wooster,	*Northfield.*	*301 College St.*
† Henry Hopkins Wright,	*Hardwick, Vt.*	B. Θ. Π. *House.*

FRESHMEN—CLASS OF 1916.

NAMES.	RESIDENCES.	ROOMS.
Harold Raymond Aldrich,	*Northfield, Vt.*	6 N. C.
Foster Eames Allison,	*Boston, Mass.*	Δ. T. Δ. *House.*
†Robert Vaughn Austin,	*Corning, N. Y.*	9 N. C.
Raymond Earl Baldwin,	*Middletown.*	*142 Lincoln St.*
†George Whitfield Beeman,	*Albany, N. Y.*	11 N. C.
†Willard Robert Bell,	*West Leesport, Pa.*	95 N. C.
Albert Akley Belyea,	*Caribou, Me.*	*58 Wyllys St.*
Frank William Bevan,	*North Adams, Mass.*	20 O. H.
Edgar Lawton Blake, Jr.,	*Chicago, Ill.*	13 N. C.
Irving George Boyd,	*Jersey City, N. J.*	80 N. C.
†Fred J. Broadbent,	*Farmington.*	50 N. C.
Richard Theodore Broeg,	*Hugo, Ore.*	15 E. H.
†Howard Wallace Brown,	*Mount Vernon, N. Y.*	20 O. H.
Alfred Evans Bruner,	*Columbia, Pa.*	77 N. C.
†Warren Fiske Burlingame,	*Charlton, Mass.*	85 N. C.
†Edward Rowland Burns,	*Meriden.*	1 O. H.
†Wilfred McKinley Bywater,	*Middletown.*	*18 Park St.*
†Martin Francis Carpenter,	*Somerville, Mass.*	10 O. H.
Kingman Packard Cass,	*Tilton, N. H.*	29 N. C.
Chester Graves Cole,	*Greeley, Iowa.*	*246 College St.*
Raymond Dow Comstock,	*New York, N. Y.*	X. Ψ. *Lodge.*
Chester Creighton Conner,	*Salisbury, Md.*	82 N. C.
†John Andrew Crafts,	*Mattapan, Mass.*	*171 Mt. Vernon St.*
†George Mansfield Craig,	*Middletown.*	*168 Broad St.*
George Bartlett Curtis,	*No. Ferrisburg, Vt.*	*171 Mt. Vernon St.*
Warren McAllister Deacon,	*Strasburg, Pa.*	59 N. C.
†Waldemar Louis Deetjen,	*Montclair, N. J.*	88 N. C.
†Herbert Allen Dingwall,	*Brooklyn, N. Y.*	80 N. C.
Philip Harrison Dodd,	*Shelton.*	*Commons Club.*
Bradford Downey,	*Mt. Vernon, N. Y.*	13 N. C.
†Corydon Bushnell Dunham,	*Spruceton, N. Y.*	*103 So. Main St.*
†Thomas Edwards Eastman,	*Portland, Me.*	30 N. C.
Wilbur Nelson Edwards,	*Clinton.*	15 O. H.

NAMES.	RESIDENCES.	ROOMS.
† Elmer Tice Eustis,	*New York, N. Y.*	61 N. C.
† Frederick Burkham Finck,	*Elizabeth, N. J.*	19 O. H.
† Ralph Carlin Flewelling,	*Cambridge, Mass.*	77 N. C.
Mansfield Freeman,	*Columbus, O.*	3 O. H.
† Donald William Gold,	*Redwood Falls, Minn.*	69 N. C.
† Davis William Gordon,	*Hazardville.*	53 N. C.
† Joel Wright Hadley,	*Indianapolis, Ind.*	79 N. C.
Edward Benjamin Haines,	*Middletown.*	*27 Cross St.*
† Abraham Avery Hallock,	*Cromwell.*	Ψ. Υ. *House.*
Charles Leslie Hammond,	*Glens Falls, N. Y.*	54 N. C.
† Samuel Hugh Harvey,	*Willimantic.*	7 N. C.
† George Alfred Hedenburg,	*Worcester, Mass.*	*99 Broad St.*
John W. Hingeley,	*Evanston, Ill.*	69 N. C.
Charles Sharpe Hitchcock,	*Bennington, Vt.*	91 N. C.
Joseph Anthony Hofmann, Jr.,	*Montclair, N. J.*	1 N. C.
Lewis Edward Holden,	*Goffstown, N. H.*	29 N. C.
Samuel Prentice Hopley,	*Hartford.*	95 N. C.
† Henry Prescott Horton,	*Poultney, Vt.*	*146 Lincoln St.*
George Shelton Hubbell,	*Dixfield, Me.*	12 O. H.
† Mortimer Frederick Johnson,	*New Britain.*	21 N. C.
Cecil George Kenyon,	*Jamaica, N. Y.*	16 O. H.
George Henry Kilian,	*New York, N. Y.*	6 O. H.
† James Warren Kinsman,	*Elizabeth, N. J.*	19 O. H.
† James Elisha Knox,	*Johnstown, N. Y.*	86 N. C.
† Lester A. Lanning,	*Harvard, Ill.*	Δ. Τ. Δ. *House.*
Charles Harold Laycock,	*Kingston, Pa.*	Ψ. Υ. *House.*
† Harold Whittier Lidstone,	*Danforth, Me.*	15 O. H.
James George McAlpine,	*Winsted.*	99 N. C.
† Charles Francis McDonald, Jr.,	*Englishtown, N. J.*	Χ. Ψ. *Lodge.*
Henry McDonald, Jr.,	*Middletown.* *343*	*Washington St.*
Robert Chester Macdonald,	*Oswego, N. Y.*	41 N. C.
† William John McFarlane,	*Brooklyn, N. Y.*	*299 College St.*
† Benjamin Henry McGar,	*Meriden.*	1 O. H.
† Morell MacKenzie,	*Boston, Mass.*	Ψ. Υ. *House.*
George Mair,	*Aberdeen, Scotland.*	36 N. C.
† Edward Leopold Markthaler,	*Elizabeth, N. J.*	19 O. H.
Eldon Hubert Martin,	*Williamstown, Vt.* *305*	*William St.*
Leslie Martin,	*Stamford.*	61 N. C.

NAMES.	RESIDENCES.	ROOMS.
† Raymond Maure,	*Richmond Hill, N. Y.*	B. Θ. Π. *House.*
† Philip Stearns May,	*Boston, Mass.*	*200 Washington St.*
† Albert Conover Miller,	*Montclair, N. J.*	21 N. C.
Paul Peter Miller,	*Camden, N. J.*	*299 College St.*
Winfield Scott Moore, Jr.,	*Beaver, Pa.*	15 N. C.
† David Valentine Morris,	*Cleveland, O.*	*246 College St.*
Horace David Nuber,	*Washington, D. C.*	17 O. H.
Matthew Houston O'Brien,	*Washington, D. C.*	17 O. H.
† Rossiter David Olmstead,	*Albion, N. Y.*	94 N. C.
Carl Wright Phelps,	*Lowell, Mass.*	4 N. C.
William Harvey Reeves,	*New Brunswick, N. J.*	13 O. H.
Arthur Jacob Rice,	*Dallas, Pa.*	59 N. C.
† Leland Francis Ross,	*Fitchburg, Mass.*	*171 Mt. Vernon St.*
† Robert Sherman Ross,	*Elizabeth, N. J.*	*Gymnasium.*
† Gabor Roth,	*Elizabeth, N. J.*	*174 Washington St.*
† Robert Cotton Saltmarsh,	*Laconia, N. H.*	Δ. T. Δ. *House.*
Ralph Elwood Sampson,	*Dexter, Me.*	73 N. C.
Herbert Chester Sargent,	*East Barre, Vt.*	*305 William St.*
† Henry Ernest Schinzel,	*Hoboken, N. J.*	Ψ. Υ. *House.*
† Charles William Seeholzer,	*Wappingers Falls, N. Y.*	7 O. H.
† Gregg Leib Shoemaker,	*Philadelphia, Pa.*	89 N. C.
† Frank Alfred Slocum, Jr.,	*Brooklyn, N. Y.*	9 N. C.
† James Stark,	*Pawling, N. Y.*	20 O. H.
† Earl Place Stevenson,	*Indianapolis, Ind.*	79 N. C.
† Vernon Forrest Still,	*Elizabeth, N. J.*	14 O. H.
Harrison McClure Thomas,	*Pittsburg, Pa.*	X. Ψ. *Lodge.*
† Linford Alexander Thomas,	*Canterbury, Del.*	86 N. C.
† William Wallace Thompson,	*Albany, N. Y.*	11 N. C.
† Lyman Stephen Timmerman,	*Little Falls, N. Y.*	Δ. T. Δ. *House.*
Leslie Vanderbilt,	*Newark, N. J.*	74 N. C.
† Karl Skillman Van Dyke,	*Upper Montclair, N. J.*	1 N. C.
Joseph Hall Van Schoick,	*Vincentown, N. J.*	*27 Cross St.*
John Minard Van Voris,	*Cobleskill, N. Y.*	100 N. C.
† Donald Walden,	*Brooklyn, N. Y.*	88 N. C.
John Wesley Waldron,	*Port Richmond, N. Y.*	36 N. C.
† Robert Boyd Ward, Jr.,	*New Rochelle, N. Y.*	25 N. C.
† Walter John Ward,	*Albany, N. Y.*	11 N. C.
† George Clinton Weeks,	*Orange, N. J.*	12 O. H.

NAMES.	RESIDENCES.	ROOMS.
† Malvern Paul Westcott,	*Camden, N. J.*	X. Ψ. *Lodge.*
Arthur Corning White,	*Marbledale.*	*301 College St.*
Charles LeRoy Wigren,	*Ansonia.*	3 N. C.
Alonzo DeWolfe Williams,	*Corning, N. Y.*	*171 Mt. Vernon St.*
† Otho Cheney Williams,	*West Corinth, Vt.*	*305 William St.*
Earle Bowen Winchester,	*Albany, N. Y.*	24 N. C.
† Francis Lyon Winslow,	*Montclair, N. J.*	21 N. C.
† John Howard Withey,	*Fleischmanns, N. Y.*	7 O. H.
† Luis Angel Yordan,	*Ponce, Porto Rico.*	100 N. C.
† Lucien Francis Young,	*Minneapolis, Minn.*	6 N. C.

SPECIAL STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Eli Allison,	*Bramley, Leeds, England.*	19 E. H.
Ernest Raymond Dodge,	*Munich, Germany.*	*107 Lawn Ave.*
Ralph Edward Foster,	*Ansonia.*	3 N. C.
William Manly Ketcham,	*Oriental, N. C.*	15 E. H.
Allan Wynn Milliken,	*Bar Harbor, Me.*	*58 Wyllys St.*
Louis Wetherbee Pitt,	*Middletown.*	A. Δ. Φ. *House.*
Victor Ambrose Welton,	*East Hampton, N. Y.*	54 N. C.
Edgar Clair Weston,	*Altoona, Pa.*	*53 Loveland St.*

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SOPHOMORES,	89
FRESHMEN,	119
SPECIAL STUDENTS,	8
Total,	410

ABBREVIATIONS.

N. C.,	North College.
S. C.,	South College.
O. H.,	Observatory Hall.
E. H.,	East Hall.
J. H.,	Judd Hall.
F. H.,	Fisk Hall.
S. L.,	Scott Laboratory of Physics.
†	Scientific Course.

CLASSIFICATION BY RESIDENCE.

UNITED STATES.

New York,	101
Connecticut,	73
New Jersey,	56
Massachusetts,	44
Pennsylvania,	34
Maine,	26
Vermont,	9
New Hampshire,	7
District of Columbia,	7
Maryland,	5
Indiana,	5
Ohio,	5
Illinois,	4
Texas,	4
Delaware,	3
North Carolina,	3
California,	2
Minnesota,	2
Rhode Island,	2
Wisconsin,	2
Tennessee,	2
Michigan,	1
Iowa,	1
Louisiana,	1
Oregon,	1

FOREIGN COUNTRIES.

Italy,	2
Porto Rico,	2
Canada,	1
England,	1
Hawaii,	1
South America,	1
Scotland,	1
Germany,	1
Total,	410

GENERAL STATEMENT.

Courses of Study.—The College presents to its undergraduates the option of two parallel courses of study, each extending through four years, one leading to the degree of Bachelor of Arts, the other to the degree of Bachelor of Science. Either Latin or Greek is required for admission to the former course. In the Freshman year English is required of students of both courses. The rest of the work is elective from a limited number of courses, with the requirement that a candidate for the B. A. degree must take a three-hour course in either Latin or Greek, and a three-hour course in one of the following: Latin, Greek, Mathematics, Modern Languages; a candidate for the B. S. degree must take the following courses in college, unless he has presented them for admission: Trigonometry, and either Advanced Algebra, Solid Geometry, or Analytic Geometry; I. and II. French; I. and II. German. In the three remaining years, all the studies are elective, within the limits of a group system. Each student must elect a major study.

Special Courses. — Students who do not desire to complete either of the foregoing courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the college.

Graduate Studies.—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments. Further information concerning such graduate courses is given in the reports of the several departments on courses of instruction, and also in connection with the statement of conditions for the degrees of Master of Arts and Master of Science.

REQUIREMENTS FOR ADMISSION.

For admission without condition the candidate must secure credit for 14½ units, a unit representing a year's work in a secondary school with four or five periods a week.

B. A. DEGREE.—Candidates for the B. A. degree must present English, 3 units, Elementary Algebra, 1½ units, Plane Geometry, 1 unit, Ancient History, 1 unit, and either Latin, 4 units, or Greek, 3 units; making a total of 10½ or 9½ units. The remaining units to make up a total of 14½ may be selected from any of those specified below. Unless both Latin and Greek are offered, candidates must present an elementary modern language, or take a corresponding course in college.

B. S. DEGREE.—Candidates for the B. S. degree must present English, 3 units, Elementary Algebra, 1½ units, Plane Geometry, 1 unit, History, 1 unit, one elementary modern language, 2 units; making a total of 8½ units. The remaining units to make up a total of 14½ may be selected from any of those specified below. Unless two units in science are offered, at least five hours of science must be taken in college.

SCALE OF VALUES.

	Units.
English,	3
Latin, 2 years,	2
3rd year,	1
4th year,	1
Greek, 2 years,	2
3rd year,	1
German—Elementary, 2 years,	2
Intermediate, 3rd year,	1
French—Elementary, 2 years,	2
Intermediate, 3rd year,	1

	Units.
History—Ancient History,	1
Mediaeval and Modern History,	½ or 1 *
English History,	½ or 1 *
American History,	½ or 1 *
Mathematics—Elementary Algebra,	1½
Plane Geometry,	1
Solid Geometry,	½
Advanced Algebra,	½
Plane Trigonometry,	½
Physics, theoretical and practical,	1
Chemistry, theoretical and practical,	1
Physical Geography,	½ or 1 *
Biology,	½ or 1 *

* Depending on the length of the course.

REQUIREMENTS IN DETAIL.

ENGLISH.

Preparation in English has two main objects: (1) command of correct and clear English, spoken and written; (2) ability to read with intelligence and appreciation.

I. English Grammar and Composition.

The first object requires instruction in grammar and composition. English grammar should ordinarily be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition governing punctuation, the use of words, paragraphs, and the different kinds of composition, including letter writing, should be thoroughly mastered; and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise narration, description, and easy exposition and argument based upon simple outlines. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from his

reading in literature. Finally, special instruction in language and composition should be accompanied by concerted effort of teachers in all branches to cultivate in the student the habit of using good English in his recitations and various exercises, whether oral or written.

II. LITERATURE.

The second object is sought by means of two lists of books, headed respectively Reading and Study, from which may be framed a progressive course in literature covering four years. In connection with both lists, the student should be trained in reading aloud and encouraged to commit to memory some of the more notable passages both in verse and in prose. As an aid to literary appreciation, he is further advised to acquaint himself with the most important facts in the lives of the authors whose works he reads and with their place in literary history.

A. READING.—The aim of this course is to foster in the student the habit of intelligent reading and to develop a taste for good literature, by giving him a first-hand knowledge of some of its best specimens. He should read the books carefully, but his attention should not be so fixed upon details that he fails to appreciate the main purpose and charm of what he reads.

With a view to large freedom of choice, the books provided for reading are arranged in the following groups, from which at least ten units* are to be selected, two from each group:

1. The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the Odyssey, with the omission, if desired, of Books I., II., III., IV., V., XV., XVI., XVII.; the Iliad, with the omission, if desired, of Books XI., XIII., XIV., XV., XVII., XXI.; Vĕrgil's Aeneid. The Odyssey, Iliad, and Aeneid should be read in English translations of recognized literary excellence.

For any unit of this group a unit from any other group may be substituted.

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* Each "unit" is set off by semicolons.

2. Shakespeare's Merchant of Venice; The Midsummer Night's Dream; As You Like It; Twelfth Night; Henry the Fifth; Julius Cæsar.

3. Defoe's Robinson Crusoe, Part I.; Goldsmith's Vicar of Wakefield; either Scott's Ivanhoe or Scott's Quentin Durward; Hawthorne's The House of the Seven Gables; either Dickens's David Copperfield, or Dickens's A Tale of Two Cities; Thackeray's Henry Esmond; Mrs. Gaskell's Cranford; George Eliot's Silas Marner; Stevenson's Treasure Island.

4. Bunyan's Pilgrim's Progress, Part I.; The Sir Roger de Coverley Papers in The Spectator; Franklin's Autobiography (condensed); Irving's Sketch Book; Macaulay's Essays on Lord Clive and Warren Hastings; Thackeray's English Humourists; Selections from Lincoln, including at least the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, and Letter to Horace Greeley, along with a brief memoir or estimate; Parkman's Oregon Trail; either Thoreau's Walden, or Huxley's Autobiography and Selections from Lay Sermons, including the addresses on Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk; Stevenson's Inland Voyage and Travels with a Donkey.

5. Palgrave's Golden Treasury (First Series), Books II. and III., with especial attention to Dryden, Collins, Gray, Cowper, and Burns; Gray's Elegy in a Country Churchyard and Goldsmith's Deserted Village; Coleridge's Ancient Mariner and Lowell's The Vision of Sir Launfal; Scott's The Lady of the Lake; Byron's Childe Harold, Canto IV., and The Prisoner of Chillon; Palgrave's Golden Treasury (First Series), Book IV., with especial attention to Wordsworth, Keats, and Shelley; Poe's Raven, Longfellow's The Courtship of Miles Standish, and Whittier's Snow Bound; Macaulay's Lays of Ancient Rome and Arnold's Sohrab and Rustum; Tennyson's Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur; Browning's Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Hervé Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City.

B. STUDY.—This part of the requirement is intended as a natural and logical continuation of the student's earlier reading, with greater stress laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions. For this close reading are provided a play, a group of poems, an oration, and an essay, as follows:

Shakespeare's Macbeth; Milton's L'Allegro, Il Penseroso, and Comus; either Burke's Speech on Conciliation with America, or both Washington's Farewell Address and Webster's First Bunker Hill Oration; either Macaulay's Life of Johnson, or Carlyle's Essay on Burns.

EXAMINATIONS.—However accurate in subject-matter, no paper will be considered satisfactory if seriously defective in punctuation, spelling, or other essentials of good usage.

The examination will be divided into two parts, one of which may be taken as a preliminary, and the other as a final.

The first part of the examination will be upon the books chosen, in accordance with the plan described earlier, from the lists headed Reading; and it may include also questions upon grammar and the simpler principles of rhetoric, and a short composition upon some topic drawn from the student's general knowledge or experience. On the books prescribed for reading, the form of the examination will usually be the writing of short paragraphs on several topics which the candidate may choose out of a considerable number. These topics will involve such knowledge and appreciation of plot, character-development, and other qualities of style and treatment as may be fairly expected of boys and girls. In grammar and rhetoric, the candidate may be asked specific questions upon the practical essentials of these studies, such as the relation of the various parts of a sentence to one another, the construction of individual words in a sentence of reasonable difficulty, and those good usages of modern English which one should know in distinction from current errors.

The second part of the examination will include composition and those books comprised in the list headed Study. The test in composition will consist of one or more essays, developing a theme through several paragraphs; the subjects will be drawn from the books prescribed for study, from the candidate's other

studies, and from his personal knowledge and experience quite apart from reading. For this purpose the examiner will provide several subjects, perhaps five or six, from which the candidate may make his own selections. The test on the books prescribed for study will consist of questions upon their content, form, and structure, and upon the meaning of such words, phrases, and allusions as need explanation for an understanding of the works and an appreciation of their salient qualities of style. General questions may also be asked concerning the lives of the authors, their other works, and the periods of literary history to which they belong.

NOTE. The requirements in English in 1915 and thereafter will be those recommended by the National Conference on Uniform Entrance Requirements in English, and recently adopted by the College Entrance Examination Board. A statement of the new requirements may be obtained by addressing the Secretary of the Faculty.

LATIN.

I. AMOUNT AND RANGE OF READING REQUIRED.

1. The Latin reading required of candidates for admission to the B. A. course, without regard to the prescription of particular authors and works, is not less *in amount* than Caesar, Gallic War, I.–IV.; Cicero, the orations against Catiline, for the Manilian Law, and for Archias; Vergil, Aeneid, I.–VI.

2. The amount of reading specified above should be selected by the schools from the following authors and works: Caesar (Gallic War and Civil War) and Nepos (Lives); Cicero (orations, letters, and De Senectute) and Sallust (Catiline and Jugurthine War); Vergil (Bucolics, Georgics, and Aeneid) and Ovid (Metamorphoses, Fasti, and Tristia).

II. SUBJECTS AND SCOPE OF THE EXAMINATIONS.

1. Translation at Sight. Candidates will be examined in translation at sight of both prose and verse. In vocabulary, constructions, and range of ideas, the passages set will be suited to the preparation secured by the reading indicated above.

2. Prescribed Reading. Candidates will be examined also upon the following prescribed reading: Cicero, orations for the

Manilian Law and for Archias, and Vergil, Aeneid, I., II., and either IV. or VI. at the option of the candidate, with questions on subject-matter, literary and historical allusions, and prosody. Every paper in which passages from the prescribed reading are set for translation will contain also one or more passages for translation at sight; and candidates must deal satisfactorily with both these parts of the paper, or they will not be given credit for either part.

The papers set by the College Entrance Examination Board, corresponding to the above requirements, are NR 4 and NR 5.

3. Grammar and Composition. The examinations in grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose. The words, constructions, and range of ideas called for in the examinations in composition will be such as are common in the reading of the year, or years, covered by the particular examination.

The papers set by the College Entrance Examination Board, corresponding to the above requirements, are NR 1 and NR 2.

In the case of candidates who desire credit for *two years'* work in Latin, the required reading is not less *in amount* than Caesar, Gallic War, I.–IV., and should be selected from the following: Caesar (Gallic War and Civil War) and Nepos (Lives). The test is on ability to read at sight, and no part of the reading is prescribed for examination. The corresponding paper of the College Entrance Examination Board is NR 3. For *three years'* credit, the required reading is not less *in amount* than Caesar, Gallic War, I.–IV., and Cicero, the orations against Catiline, for the Manilian Law, and for Archias; this reading should be selected from Caesar (Gallic War and Civil War) and Nepos (Lives), Cicero (orations, letters, and De Senectute) and Sallust (Catiline and Jugurthine War). Cicero's orations for the Manilian Law and for Archias are prescribed for examination, in addition to the translation at sight. The corresponding paper of the College Entrance Examination Board is NR 4. For this may be substituted, if desired, the examination in fourth-year Latin, Vergil and Translation of Poetry at sight (NR 5).

Certificates for two years of Latin must state that the candidate has had systematic practice, and has exhibited satisfactory proficiency, in reading at sight Latin of the average difficulty of Caesar; certificates for three years must vouch for similar practice and proficiency in reading at sight Latin of the average difficulty of either Cicero's orations or Vergil's Aeneid; and certificates for four years must vouch for such practice and proficiency in reading at sight Latin of the average difficulty of both Cicero's orations and Vergil's Aeneid.

GREEK.

1. Greek grammar, including prosody. The following textbooks are recommended: Hadley-Allen's, Goodwin's, or Babbitt's.

2. Xenophon,—Anabasis, books I.–IV.

3. Homer,—Iliad, books I.–III.

4. Translation at sight of one or more passages from Xenophon.

5. Translation into Greek of easy narrative passages based on the required books of the Anabasis.

To meet the full requirement in Greek, candidates must pass the following examinations of the College Entrance Examination Board: Greek *a i*, *a ii*, *b*, *c*, *g*.

GERMAN.

ELEMENTARY (counting as two units).—Such a knowledge of the language is required as may be obtained by the reading of at least 300 pages, part of which should be read at sight. It is recommended that there be sufficient aural and oral practice to enable the student to write simple German prose from dictation and to read the language aloud with a correct and intelligible pronunciation. The ability to answer simple questions in German is also highly important. The examination consists of the translation at sight into English of easy passages of German, elementary grammatical questions, and the translation of simple English sentences into German. To meet this requirement two years' work will generally be necessary.

INTERMEDIATE.—The requirement includes the reading of at least 300 additional pages of German (not more than half of which should be fiction), and regular practice in writing and speaking German. Further practice in speaking German is recommended, sufficient to enable the student to understand simple spoken German, and to express simple ideas in the language. At least one additional year of study will be necessary to meet this requirement.

FRENCH.

ELEMENTARY (counting as two units).—Such a knowledge of the language is required as may be obtained by the reading of at least 400 pages, part of which should be read at sight. The examination consists of the translation at sight into English of easy passages of French, elementary grammatical questions, and the translation of simple English sentences into French. To meet this requirement two years' work will generally be necessary.

INTERMEDIATE.—The requirement includes the reading of not less than 600 additional pages of French (including at least two works of a dramatic character), and regular practice in writing and speaking French. At least one additional year of study will be necessary to meet this requirement.

HISTORY.

1. Ancient History to the death of Charlemagne (814).

2. Mediaeval and Modern European History from the death of Charlemagne (814) to the present time.

3. English History.

4. American History and Civil Government.

These four courses are outlined in *The Study of History in Schools: Report to the American Historical Association by the Committee of Seven* (1899), and with more detail in *A History Syllabus for Secondary Schools . . . . by a Special Committee of the New England History Teachers' Association* (1904), and in *Syllabus for Secondary Schools, 1910*, published by the University of the State of New York. These courses are identical with those scheduled for examination by the College Entrance Examination Board.

In each of the above courses the following requirements must be met:

1. One year of historical work, wherein the study is given five times per week, or two years of historical work, wherein the study is given three times per week.

2. Such general knowledge of the whole course as may be acquired from the study of an accurate text-book, amounting to not less than 500 pages.

3. A fuller knowledge derived from suitable collateral reading, in books of a less elementary nature, amounting to at least 500 pages.

4. Comparisons between historical characters, periods, and events, and in general the power to combine in orderly fashion the results of reading, and to exercise judgment as well as memory.

5. Geographical knowledge, tested by the location of places, movements, and territorial changes on an outline map, by physical features wherever possible, as well as by political features.

Schools having the certificate privilege must certify only those courses in history actually pursued in the high school and must omit any courses taken in the grammar school, or merely passed on examination, or not complying with the above requirements.*

The Regents' diplomas and supplementary pass cards of the University of the State of New York for the *five*-hour examinations will be received as covering the first, third, and

* In case of schools entitled to the certificate privilege, where any of the courses in history are such that they do not meet the above requirements, the teacher should give the student a detailed statement of the courses taken and of his grades, which statement will be considered in connection with such examination as may be deemed necessary to determine the amount of credit to be allowed. In no case will account be taken of a course in Greek History which does not extend at least to the death of Alexander (B. C. 323), or of a course in Roman History which does not extend at least to the death of Marcus Aurelius (A. D. 80). No account will be taken of any course of less than five periods for a half-year, or three periods for a year.

fourth of the above groups, and for the three hour examinations in *both* Modern History I. and Modern History II. as covering the second of the above groups.*

Candidates for the B.A. degree must present Ancient History, the first of the above groups, and may, in addition, present one or more of the other groups. Candidates for the B. S. degree must present at least one of the above groups, preferably the fourth (American History and Civil Government), and, in addition, may present one or more of the other groups.

MATHEMATICS.

1. Elementary Algebra.

(*a*) Algebra to Quadratics. The four fundamental operations for rational algebraic expressions. Factoring determination of highest common factor and lowest common multiple by factoring. Fractions, including complex fractions, and ratio and proportion. Linear equations, both numerical and literal, containing one or more unknown quantities. Problems depending on linear equations. Radicals, including the extraction of the square root of polynomials and of numbers. Exponents, including the fractional and negative.

(*b*) Quadratics and beyond. Quadratic equations, both numerical and literal. Simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations. Problems depending on quadratic equations. The binomial theorem for positive integral exponents. The formulas for the *n*th term and the sum of the terms of arithmetical and geometric progressions, with applications.

2. Plane Geometry.

The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons, and the measurement of the circle.

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* No credit will be allowed for the *three*-hour examination in Ancient History. Temporarily, the three-hour examinations in the other subjects will be credited for a half-unit. No credit is given for Elementary United States History and Civics, or Civics, or Economics.

The solution of numerous original exercises, including loci problems. Applications to the mensuration of lines and plane surfaces.

3. SOLID GEOMETRY.

The usual theorems and constructions of good text-books, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of surfaces and solids.

4. ADVANCED ALGEBRA.

Permutations and combinations, limited to simple cases. Complex numbers, with graphical representation of sums and differences. Determinants, chiefly of the second, third, and fourth orders, including the use of minors and the solution of linear equations. Numerical equations of higher degree, and so much of the theory of equations, with graphical methods, as is necessary for their treatment, including Descartes' rule of signs and Horner's method, but not Sturm's functions or multiple roots.

5. PLANE TRIGONOMETRY.

Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles. Proofs of principal formulas, in particular for the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas. Solution of trigonometric equations of a simple character. Theory and use of logarithms (without the introduction of work involving infinite series). The solution of right and oblique triangles, and practical applications.

PHYSICS.

The course of instruction should include:

(1) The careful study of a standard text-book, for the purpose of obtaining a connected and comprehensive view of the subject.

(2) Lecture table demonstrations, mainly qualitative, illustrating important facts and phenomena and their practical applications.

(3) Individual laboratory work, consisting of experiments requiring at least the time of thirty double periods. The experiments performed by each student should number at least 30. They should be chiefly quantitative, and so chosen as to give a wide range of observation and practice. They should be neatly recorded in a suitable note-book, *indexed, and certified by the instructor.* This book should be deposited at the Secretary's office for examination, when the candidate presents himself for admission to college.

The above requirements are intended to be identical with those of the College Entrance Examination Board, as set forth in their Document No. 53. Teachers of physics are advised to consult this document for a valuable syllabus of topics and list of experiments.*

CHEMISTRY.

The requirements for admission in chemistry may be summarized as follows:

(1) Individual laboratory work, comprising at least forty experiments. The candidate must present his original note-book containing a record in his own words of the experiments, and of his observations and conclusions in connection with them. The note-book should include *an index of the experiments performed, and must be certified by the instructor.* It should be deposited for inspection at the Secretary's office at the time when the candidate presents himself for admission to college.

(2) Instruction by lecture table demonstrations, covering the more important facts and principles of chemistry.

(3) The thorough study of at least one standard text-book, for the acquisition of a comprehensive and connected view of the subject.

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* Address College Entrance Examination Board, P. O. Sub-Station 84, New York City. The price of the document is ten cents.

These requirements are intended to be identical with those of the College Entrance Examination Board. Teachers who desire to meet them should consult Document No. 53 of the Board.*

PHYSICAL GEOGRAPHY.

In physical geography, such a knowledge of the subject is required as may be gained from the study of the text-book of any one of the following authors: Salisbury, Tarr, Davis, Gilbert and Brigham, Hinman, Dryer, Hopkins, Geikie. Certificates in physical geography will not be accepted without examination, with credit of one half-unit, unless one of the text-books above mentioned has been used, and the time devoted to the study has been at least the equivalent of four exercises a week for a half-year. Certificates will not be accepted without examination, with credit of one unit, unless one of the text-books above mentioned has been used, supplemented by collateral reading or laboratory work, and the time devoted to the study has been at least the equivalent of four exercises a week for a year.

BIOLOGY.

Credit will be given in biology for either one-half unit or for one unit, according to the amount of time the student has given to the study. To obtain a credit of one unit, the student must have given to the study the equivalent of five hours a week for a year. Credit will be allowed for work in either botany or zoölogy, any of the modern text-books in these subjects being recognized as satisfactory. If the student desires credit for a unit in botany he is expected to have a knowledge of both structural and morphological botany, and to have a practical familiarity with the method of analyzing flowers and using analytical keys. In zoölogy a more thorough comprehension of the structure and classification of animals is expected if a unit credit is given than if only a half unit. In case a student has had an extended course in physiology, this may be accepted in place of botany.

* Address College Entrance Examination Board, P. O. Sub-Station 84, New York City. The price of the document is ten cents.

SPECIAL COURSES.

Special students, not candidates for a degree, may be admitted, upon passing such examinations as the Faculty shall in each case prescribe. (See also page 31.)

GENERAL REGULATIONS CONCERNING ADMISSION.

ADVANCED STANDING.—All candidates for advanced standing must satisfy the Faculty of their proficiency in the preparatory studies, the required studies already pursued by the classes they propose to enter, and the proper quota of elective studies, or studies recognized as equivalents therefor. A certificate of standing in another college is not accepted as evidence of such proficiency, without such further inquiry or examination as may be necessary in the judgment of the respective instructors.

PRELIMINARY EXAMINATIONS.—Preliminary examinations in any of the requirements for admission may be taken a year or more before entering college, and a candidate will receive credit for any subjects thus passed in advance.

DATE AND PLACE OF EXAMINATIONS.—Examinations for admission are held twice each year, in June and in September.

In June the entrance examinations of the college are those of the College Entrance Examination Board, of which Wesleyan University is a member. An application for the privilege of taking these examinations must be made to the Secretary of the College Entrance Examination Board, Post Office Sub-Station 84, New York, N. Y., from whom all necessary information regarding the June examinations can be obtained. These examinations will be held June 16–21, 1913, at a large number of widely distributed points, including Middletown.

Applications for examination at points in the United States east of the Mississippi River (also at Minneapolis, St. Louis, and other points on the Mississippi River) must be received by the Board on or before Monday, June 2, 1913; applications for examination elsewhere in the United States or in Canada must be received on or before Monday, May 26, 1913; and applications

for examination at points outside of the United States and Canada must be received on or before Monday, May 12, 1913. In order to facilitate the making of arrangements for the proper conduct of the examinations, it is desired that all applications be filed as early as possible.

Each application filed in accordance with the foregoing requirements must be accompanied by the examination fee, which is $5.00 for candidates examined at points in the United States and Canada, and $15.00 for candidates examined at points outside the United States and Canada. This fee should be remitted by postal order, express order, or draft on New York, payable to the College Entrance Examination Board.

Applications received later than the dates named above will be accepted when it is practicable to arrange for the examination of the candidates concerned, but only upon the payment of $5.00 in addition to the regular fee. The blank forms necessary for making this application may be obtained only from the Secretary of the College Entrance Examination Board.

The fees of candidates for examination in June, 1913, whose applications have been accepted by the Secretary, can under no circumstances be returned unless the request for their return is received on or before Monday, June 9, 1913.

A candidate for examination in two or more years will be required to pay the examination fee in each year.

The examinations in September will be conducted by the college, and no fees will be charged. They will be held only in Middletown. The date of the examination in 1913 will be September 17–18.

ADMISSION BY CERTIFICATE.—Certificates covering the foregoing requirements for admission to college are received from certain schools of good standing, which have been approved by the Faculty. A certificate will not be received unless it covers decidedly the major part of the requirements for admission.

No certificate will be received from any school in New England which has not been approved by the New England College Entrance Certificate Board, of which this college is a member. The Secretary of the Board is Prof. N. F. Davis, of Brown University, Providence, R. I., to whom applications from New England schools for the certificate privilege should

be addressed. Such applications must reach the Secretary not later than April first, if approval is desired for the next academic year.

Certificates of the College Entrance Examination Board will be received in lieu of examination in the subjects which they cover.

Diplomas issued by the Regents of the University of the State of New York, and pass cards supplementary to such diplomas, will be received in lieu of examination in the subjects which they cover. Regents' certificates will also be received, provided they cover decidedly the major part of the requirements for admission.

Certificates from preparatory schools and Regents' diplomas are never accepted in lieu of examination for advanced standing.

Students entering by certificate are considered as on trial until the completion of the mid-year examinations. A student admitted to college on certificate, who is dismissed during his Freshman year on account of inability to keep up with his class, must take examinations in all subjects required for admission, in case he desires to return to college.

Detailed information concerning admission by certificate may be obtained on application to the Secretary of the Faculty.

ADMISSION OF WOMEN.—Women were first admitted to the University in 1872. The Trustees voted, February 26, 1909, that no women should be admitted in any class later than that entering in 1909. Women may be admitted, however, as graduate students. The Trustees have adopted a resolution favoring the establishment of a coördinate college for women as soon as the necessary funds can be secured.

Satisfactory evidence of good moral character will be required in the case of all candidates for admission; and certificates of honorable dismissal will be required from those who have been members of other colleges.

COURSES OF INSTRUCTION.

For regulations concerning selection of studies, see page 100.

Bracketed courses are not given this year, but will, in most cases, be given next year.

The figures [1] and [2] following the number of a course indicate respectively that the course is offered for the first or the second half-year.

The Roman numerals in parentheses following each course indicate the examination group to which it is assigned. For table of groups, see pages 98 and 99.

The place of meeting of each course is indicated by means of the following abbreviations: F. H.=Fisk Hall; J. H.=Judd Hall; O. H.=Observatory Hall; S. L.=Scott Laboratory of Physics; CHEM. LAB., BIOL. LAB.=Chemical, Biological Laboratory.

An asterisk prefixed to the number of a course indicates that it can be elected only with the previous approval of the instructor; such approval must be *in writing* and must be handed in by the student *along with his list of electives.*

LATIN.

† PROFESSOR HARRINGTON; ASSOCIATE PROFESSORS NICOLSON AND HEWITT.

Of the following courses in Latin, Courses I. and I.A are given every year, the remaining courses usually in alternate years only, the bracketed courses being omitted in 1912–13. The present year the number of courses omitted is larger than usual, on account of the absence of Professor Harrington. But a larger number of courses than usual will be offered in 1913-14. Either Course I. in Latin or Course I. in Greek is required of all candidates for the degree of B. A. Course I.A should be elected in Freshman year by all students intending to pursue any further study of the classics. Courses II.–VI. are elective for those who have taken Course I. Courses I., I.A, two of Courses II.–V., and any one of Courses VI., XVI., and XVII. are required of candidates for preliminary honors in classics. Courses VII.–XXI. are intended primarily for those who have taken at least Course I. and two of Courses II.–V. But Courses XVI. and XX. may by special permission of the instructor be elected by those who have taken only Course I.; and students of marked ability in the reading of Latin, who are taking one of Courses II.–V., may be admitted to certain of the other courses at the same time by special permission of the instructor, to whom application should in each case be made.

† On leave of absence for the year.

I. LIVY,—Selections *(first half-year)*. TERENCE,—Heauton Timoroumenos; PLAUTUS,—Mostellaria *(second half-year)*. Exercises in sight translation throughout the year. SECTION 1, *Tu., Th., Sat., at 9;* SECTION 2, *Tu., Th., Sat., at 11;* SECTION 3, *Mon., Wed., Fri., at 12.* 31 F. H. PROFESSORS NICOLSON and HEWITT. (V.)

I.A. SUPPLEMENTARY COURSE. Training in rapid reading; practice in Latin composition. Occasional lectures throughout the year by the instructors in Latin, giving a preliminary survey of the various departments of classical study. *Wed., at 11.* 31 F. H. PROFESSOR NICOLSON. (IV.)

[II.[1] CICERO,—Selected letters, to give a more intimate acquaintance with the history of Rome during the last two decades of the republic, and to compare colloquial with formal Latin. *Twice a week (first half-year).* PROFESSOR HARRINGTON.]

[III.[2] HORACE,—Odes and Epodes, to illustrate the lyric art of the Augustan age. *Twice a week (second half-year).* PROFESSOR HARRINGTON.]

IV.[1] HORACE,—Satires and Epistles, to illustrate the social and literary standards of Rome at the beginning of the empire. *Tu., Th., at 12 (first half-year).* 31 F. H. PROFESSOR HEWITT. (XI.)

V.[2] PLINY THE YOUNGER,—Selected letters, to illustrate especially the state of Roman society at the close of the first century after Christ. *Tu., Th., at 12 (second half-year).* 31 F. H. PROFESSOR HEWITT. (XI.)

[VI.[1] LATIN PROSE COMPOSITION. In this course the elementary principles of Latin style are studied and considerable amounts of English prose (dealing with subjects both ancient and modern) are translated into Latin. *Twice a week (first half-year).* PROFESSOR HEWITT.]

VII. RAPID READING. The aim in this course is to read large amounts of comparatively easy Latin, with a view to acquiring facility in the use of the language. The selections for

the first half-year are from poetry (Vergil, Plautus, Terence); in the second half-year from prose (Caesar, Suetonius, Gellius). A considerable part of the reading is done outside of class, and tested by written recitations. *Mon., Fri., at 10.* 13 F. H. PROFESSOR NICOLSON. (III.)

[VIII. ROMAN LITERATURE. A historical and critical survey of Roman literature given by means of lectures, a text-book dealing with the general subject, illustrative class-room readings in Latin and in English translations, and a choice of several collateral reading courses covering different periods. This course is designed primarily for students who desire a wider general acquaintance with the literature of the Romans and its relation to other literatures, without special emphasis upon its distinctly philological features. *Twice (counting as three times) a week.* PROFESSOR HARRINGTON.]

[IX. ROMAN ELEGIAC POETRY. The origin and development of the elegiac form. Selections from Catullus, Tibullus, Propertius, and Ovid. Practice in original research. Seminar methods are employed. *Twice a week.* PROFESSOR HARRINGTON.]

[X.[1] OVID,—the Fasti, with special attention to questions of Roman history and ritual. *Twice a week (first half-year).* PROFESSOR NICOLSON.]

[XI.[1] ROMAN SATIRE. From its beginnings through the Golden Age. Selections from Ennius, Lucilius, Varro, Horace, and Persius. *Twice a week (first half-year).* PROFESSOR HARRINGTON.]

[XII.[2] ROMAN SATIRE. A continuation of Course XI. Selections from Juvenal, Petronius, and Apuleius; the Apocolocyntosis of Seneca; lectures on the earliest forms of the novel. *Twice a week (second half-year).* PROFESSOR NICOLSON.]

[XIII. ROMAN PHILOSOPHY. Lucretius (selections); Cicero (selections from the Academica, De Officiis, Tusculanae Disputationes, De Finibus, De Natura Deorum); Seneca (selected essays and epistles); lectures on the development of Roman philosophy. *Three times a week.* PROFESSOR HARRINGTON.]

[XIV.[2] TACITUS. Selections from the Annals I.–VI., designed to illustrate the author's conception of the character of Tiberius, and of the upbuilding of the principate. *Twice a week (second half-year).* PROFESSOR HEWITT.]

[XV.[1] CATULLUS. The beginnings of lyric poetry among the Romans, with a brief study of its later development and of lyric forms in post-classical and mediaeval Latin. *Twice a week (first half-year).* PROFESSOR HARRINGTON.]

[XVI.[1] ROMAN PRIVATE LIFE AND SOCIAL INSTITUTIONS. A course of lectures, illustrated by photographs, engravings, and lantern slides, and requiring some collateral study of original and of secondary authorities, and the careful preparation of note-books. *Three times a week (first half-year).* PROFESSOR HARRINGTON.]

[XVII.[2] HISTORICAL LATIN GRAMMAR. Lectures on the historical development of Latin grammar, as regards both forms and syntax, with illustrative readings in inscriptions and in early Roman literature. *Three times a week (second half-year).* PROFESSOR HARRINGTON.]

[XVIII.[1] LATIN EPIGRAPHY. An introductory course, with special attention to inscriptions of historical interest. The course is prefaced by a brief survey of the general classes and formal characteristics of Latin inscriptions, based upon Egbert's Introduction. *Twice a week (first half-year).* PROFESSOR HARRINGTON.]

[XIX.[2] ROMAN TOPOGRAPHY AND PUBLIC BUILDINGS. A course of lectures, illustrated by photographs, engravings, and lantern slides, and requiring some collateral study of original and of secondary authorities, and the careful preparation of note-books. *Twice a week (second half-year).* PROFESSOR HARRINGTON.]

[XX.[2] ROMAN POLITICAL INSTITUTIONS AND LAW. An introductory course, based partly on original, and partly on modern authorities, given by lectures and the use of text-books. *Twice a week (second half-year).* PROFESSOR HARRINGTON.]

[XXI.[2] LATIN LITERATURE SINCE THE ROMAN EMPIRE. Lectures introductory to the literature written in the universal language of the ecclesiastical and learned European world from the fifth century to the seventeenth century. Illustrative readings from some of the most interesting types of prose and poetry, including the novel, the drama, the dialogue, the lyric, the writings of the Church Fathers. *Twice a week (second half-year).* PROFESSOR HARRINGTON.]

GREEK AND ROMAN MYTHOLOGY. For description, see Course X. in Greek.

For the most successful prosecution of even the earlier courses in Latin, ability to read German prose on philological subjects is decidedly advantageous, and for the most advanced courses it is generally necessary. Students, therefore, who look forward to the study of Latin beyond the more elementary courses, and who have on admission to college no acquaintance with German, should devote special attention to that subject in the Freshman year.

GREEK.

PROFESSOR HEIDEL; ASSOCIATE PROFESSOR HEWITT.

A. BEGINNERS' COURSE. Grammar and exercises; Xenophon,—Anabasis. *Mon., Wed., Fri., at 10.* 31 F. H. PROFESSOR HEWITT. (III.)

Credit for Course A will be given only to students who attain in it a grade of three or above and subsequently pass Course B and Course I. in Greek.

B. HOMER,—Odyssey. *Th., at 8.* 37 F. H. PROFESSOR HEWITT. (VII.)

Course B is intended for students who have taken Course A or its equivalent.

I. XENOPHON,—Memorabilia; PLATO,—Euthyphro, Apology, and Crito; HERODOTUS,—Selections. *Mon., Wed., Fri., at 10.* 37 F. H. PROFESSOR HEIDEL. (III.)

Course I. is intended for students who have completed the entrance requirements in Greek, or Courses A and B. It may,

however, be taken by those who have completed only Course A, or its equivalent, provided that they have attained a grade of three or above and are taking Course B.

Course I. in Greek, or Course I. in Latin, is required of candidates for the B. A. degree. Course I. is required of candidates for preliminary honors in classics.

II. ATTIC ORATORS *(first half-year)*. EURIPIDES,—Alcestis; ARISTOPHANES,—Clouds *(second half-year)*. *Wed., Fri., at 9.* 37 F. H. PROFESSOR HEWITT. (II.)

Course II. is elective for those who have taken Course I. It is required of candidates for preliminary honors in classics.

III.[1] GREEK PROSE COMPOSITION. *Tu., Th., at 9 (first half-year)*. 37 F. H. PROFESSOR HEIDEL. (VIII.)

Course III. is elective for those who take, or have taken, Course II. Either Course III. or Course IV. is required of candidates for preliminary honors in classics. Courses III. and IV. are given in alternate years.

[IV. HISTORY OF GREEK LITERATURE. Recitations, lectures, and collateral reading are supplemented by a more intensive study of selected portions of the literature. Especial stress is laid upon the relation between the Greek and English literatures, with respect both to literary form and to subject matter. Knowledge of Greek is not required. *Twice a week.* PROFESSOR HEWITT.]

Course IV. is elective for Juniors, or for Sophomores who are taking Course II. Either Course III. or Course IV. is required of candidates for preliminary honors in classics. Course IV. is omitted the present year.

V.[1] PLATO,—Gorgias; DEMOSTHENES,—The Oration on the Crown. Collateral study of Greek rhetoric and oratory. *Mon., Wed., Fri., at 8 (first half-year)*. 37 F. H. PROFESSOR HEIDEL. (I.)

VI.[2] THE GREEK LYRIC POETS,—including selections from Pindar and Bacchylides. *Mon., Wed., Fri., at 8 (second half-year)*. 37 F. H. PROFESSOR HEIDEL. (I.)

Courses V. and VI. are elective for those who have taken Course II.

[VII. AESCHYLUS, — Prometheus Bound. SOPHOCLES, — Oedipus the King, and Antigone. Lectures and collateral reading on the Greek theatre *(first half-year)*. EURIPIDES, — Iphigenia among the Taurians, and Cyclops. ARISTOPHANES, —Frogs. Collateral reading on the Greek drama *(second half-year)*. *Three times a week*. PROFESSOR HEIDEL.]

Course VII. is elective for those who have taken Course II. It is omitted the present year.

[VIII.[1] NEW TESTAMENT IN GREEK. *Twice a week (first half-year)*. PROFESSOR HEIDEL.]

Course VIII. is elective for those who take, or have taken, Course II. It is omitted the present year.

IX.[2] THEOCRITUS AND LUCIAN. *Tu., Th., at 9 (second half-year)*. 37 F. H. PROFESSOR HEIDEL. (VIII.)

Course IX. is elective for those who have taken Course II.

[X.[1] GREEK AND ROMAN MYTHOLOGY. The subject is discussed from the anthropological rather than the literary point of view, and the course is designed to serve as an introduction to the study of religion. It consists of recitations, lectures, and frequent reports on reading. Knowledge of Latin and Greek is not required, but the ability to read German is very desirable. *Twice a week (first half-year)*. PROFESSOR HEWITT.]

Course X. is elective for Juniors. It is omitted the present year.

XI. GREEK CIVILIZATION. Lectures and collateral reading on the political institutions, the art, religion, and scientific thought of ancient Greece in relation to modern civilization. Knowledge of Greek is not required. *Tu., Th., Sat., at 10*. 37 F. H. PROFESSOR HEIDEL. (IX.)

Course XI. is elective for Juniors.

[XII.[1] PLATO,—Republic. *Three times a week (first half-year)*. PROFESSOR HEIDEL.]

[XIII.[2] GREEK LITERARY CRITICISM. Aristotle's Poetics, the treatise On the Sublime, and selections from Dionysius of

Halicarnassus. *Three times a week (second half-year).* PROFESSOR HEIDEL.]

Courses XII. and XIII. are elective for those who have taken Courses V. and VI., or Course VII. They are omitted the present year.

HEBREW.†

ELEMENTARY COURSE. Davidson's Grammar. The verbal and nominal forms and the elements of syntax are thoroughly mastered. Careful attention is given to the acquisition of a practical, working vocabulary. Short sentences in Hebrew are read with every lesson, accompanied by exercises in Hebrew composition *(first half-year).* Kittel's Hebrew Bible. The Brown, Driver, and Briggs Hebrew Lexicon. Selections from Genesis. The Book of Ruth. Sight reading *(second half-year). Mon., Tu., Th., Fri., at 12.* Berkeley Divinity School. MR. VANDERBOGART.

GERMAN.

PROFESSOR FIFE; DR. SCHOENEMANN.

I. ELEMENTARY GERMAN. Ham and Leonard's German Grammar; Nichol's Easy German Reader; Storm,—Auf der Universität; Wilbrandt,—Jugendliebe; Baumbach,—Märchen und Gedichte; Wildenbruch,—Neid. Exercises in conversation and composition, based on the texts read and on an elementary manual. SECTION 1, *Mon., Wed., Fri., at 11;* SECTION 2, *Tu., Th., Sat., at 11.* 11 F. H. DR. SCHOENEMANN. (X.)

Candidates for the degree of B. S. are required to complete the equivalent of I. and II. German, as well as I. and II. French. Such of these courses as they have not pursued and passed in before entering college, they must take as soon as practicable after entering.

II. INTERMEDIATE GERMAN. Heine,—Die Harzreise; C. F. Meyer,—Der Schuss von der Kanzel; Schiller,—Die Jungfrau von Orleans, Wilhelm Tell; Rosegger,—Der Lex von Gutenhag.

† Students may receive credit for work in this department pursued at the Berkeley Divinity School.

A part of this reading is done at sight. One hour a week throughout the year is devoted to a review of elementary grammar, with paraphrases and prose composition. A considerable part of the class exercises are conducted in German. Text-books,—Bierwirth's Elements of German, and a manual of prose composition. SECTION 1 (Sophomores), *Tu., Th., Sat., at 8.* PROFESSOR FIFE. SECTION 2 (Freshmen), *Mon., Wed., Fri., at 12.* DR. SCHOENEMANN. 11 F. H. (VII.)

Course II. is elective for those who have taken Course I.

*III. GERMAN DAILY LIFE AND INSTITUTIONS. The aim of this course is to train the student in familiar and colloquial German in speech and writing, at the same time introducing him to some of the more familiar German public and private institutions. Practice in conversation and composition based on Mezger and Müller's Kreuz und Quer durch deutsche Lande and R. Kron's German Daily Life, with the use of Perthes's Taschenatlas vom deutschen Reich, and the reading of a brief history of Germany. Lectures and pictures illustrating German life and institutions. All class exercises are conducted in German. *Tu., Th., at 12.* 39 F. H. DR. SCHOENEMANN. (XI.)

Course III. is elective, with the permission of the instructor, for those who have taken Courses I. and II.

IV. THE CLASSICAL PERIOD. Lessing, Goethe, and Schiller are taken up in the order named, and a brief study is made of the life of each, based on lectures, accompanied by parallel readings from their works. Regular written themes form a part of the course. During the present year the following will be read in class: Lessing,—Minna von Barnhelm; Goethe,—Götz von Berlichingen, Faust I.; Schiller,—Wallenstein (all parts). *Tu., Th., Sat., at 9.* 39 F. H. PROFESSOR FIFE. (VIII.)

Course IV. is elective for those who have taken Courses I. and II.

V.[1] NINETEENTH CENTURY DRAMA. Rapid readings from dramatic masterpieces by Kleist, Grillparzer, Hebbel, Ludwig, and Hauptmann, with lectures on the development of the German drama in the nineteenth century, and written themes. Witkowski's German Drama of the Nineteenth Century is used

for reference and study. The first text read is Kleist's Prinz Friedrich von Homburg. *Mon., Wed., Fri., at 2 (first half-year).* 39 F. H. PROFESSOR FIFE.

[VI.[1] THE GERMAN NOVELLE. The development of this peculiarly German form of narrative literature will be traced from the Romantic period through the nineteenth century. Rapid readings from E. T. A. Hoffmann, Eichendorff, Mörike, Keller, Storm, Heyse, K. F. Meyer, and Rosegger. A part of this reading is done outside of class and is made the subject of written themes. *Three times a week (first half-year).*]

VII.[2] CONTEMPORARY GERMAN LITERATURE (from 1880 to 1910). A study of the main currents of present-day literature with reference to modern culture and social conditions in contemporary Germany. Lectures and rapid readings from some of the most important dramatists and lyric poets, such as Sudermann, Hauptmann, Otto Ernst, Wildenbruch, Liliencron, and Hugo von Hoffmannsthal. Written themes. The first text read is Sudermann's Heimat. *Mon., Wed., Fri., at 2 (second half-year).* 39 F. H. DR. SCHOENEMANN.

[VIII.[2] HISTORICAL AND CRITICAL PROSE. Rapid readings in contemporary German historians and essayists. The course is designed as a further introduction to German culture, as well as an aid to those who desire greater proficiency in reading contemporary German prose. *Three times a week (second half-year).*]

Courses V., VI., VII., and VIII., each of which is given in alternate years only, are elective for those who have taken Courses I. and II. Courses VI. and VIII. are omitted the present year.

*IX.[1] GERMAN PROSE COMPOSITION AND ADVANCED GRAMMAR. This course begins with an intensive review of the elementary phonology and forms of the language, followed by a study of German syntax, and an introduction to historical grammar. Regular class exercises in German prose composition, supplemented by original themes. This course is intended especially for those preparing to teach German.

Behaghel's History of the German Language; Hempl's German Orthography and Phonology; Whitney and Stroebe's Advanced German Composition. *Wed., Fri., at 9 (first half-year).* 36 F. H. PROFESSOR FIFE. (II.)

Course IX. is elective, with the permission of the instructor, for those who have taken Courses I.–III.

[X.[2] HISTORY OF GERMAN LITERATURE, I. From the earliest beginnings to the end of the sixteenth century. A course of lectures, supplemented by parallel readings from an anthology and by themes. All lectures and class exercises are conducted in German. *Three times a week (second half-year).* PROFESSOR FIFE.]

XI.[2] HISTORY OF GERMAN LITERATURE, II. From the beginning of the seventeenth century to the present time. A course of lectures, supplemented by parallel readings from an anthology and by themes. All lectures and class exercises are conducted in German. *Mon., Wed., Fri., at 9 (second half-year).* 39 F. H. PROFESSOR FIFE. (II.)

Courses X. and XI., which are given in alternate years, are elective for those who have taken Courses I. and II., and who take, or have taken, Course III. Course X. is omitted the present year.

[XII.[1] MIDDLE HIGH GERMAN. The course is a brief introduction to the early classical period, and is literary rather than linguistic in its aims. Wright's Middle High German Primer. Readings from Hartmann von Aue's Der arme Heinrich, the Nibelungenlied and Walther von der Vogelweide. *Twice a week (first half-year).* PROFESSOR FIFE.]

Course XII. is elective for those who have taken Courses I.–III., or their equivalent. It is omitted the present year.

GRADUATE INSTRUCTION.

Courses IX.–XII. are intended as an introduction to graduate work, and may, with additional requirements, be taken as graduate courses. Further graduate instruction may be arranged for through private conference.

ROMANCE LANGUAGES.

PROFESSOR KUHNS; MR. MANN.

I. FRENCH. Fraser and Squair's French Grammar, Part I. Kuhns's French Reading for Beginners. Erckmann-Chatrian, —Madame Thérèse. Part of this reading is done at sight. There is also personal drill in pronunciation. SECTION 1, *Mon., Wed., Fri., at 10.* 11 F. H. SECTION 2, *Tu., Th., Sat., at 11.* 14 F. H. MR. MANN. (III.)

Candidates for the degree of B. S. must complete the equivalent of Courses I. and II. in French, as well as I. and II. in German. Such of these courses as they have not pursued and passed in before entering college, they must take as soon as practicable after entering.

II. FRENCH. Fraser and Squair's French Grammar, Part II. This course has for its main object the study of advanced grammar and composition, in connection with the reading of a large amount of French. Special attention is paid to sight-reading in class, and for each half-year collateral reading is given, to be prepared by the student himself for examination. On Tuesdays Duval's Histoire de la Littérature Française is read and is supplemented by informal lectures. SECTION 1, *Tu., Th., Sat., at 8.* 14 F. H. SECTION 2, *Tu., at 8.* 39 F. H. *Wed., Fri., at 9.* 15 F. H. PROFESSOR KUHNS and MR. MANN. (VII.)

Course II. is elective for those who have taken Course I.

*III. FRENCH CONVERSATION. The object of this course is to give practice in writing, speaking, and hearing French. During the year several informal lectures on travel in Europe are given in French. These lectures are illustrated by lantern slides. *Tu., at 10.* 39 F. H. PROFESSOR KUHNS. (IX.)

Course III. is elective, with the permission of the instructor, for those who take, or have taken, Course II.

*IV. FRENCH. French literature in the seventeenth, eighteenth, and nineteenth centuries. The masterpieces of Corneille, Racine, Molière, Boileau, La Fontaine, Rousseau, Chateaubriand, Lamartine, Alfred de Musset, Victor Hugo, Balzac, and others are read and discussed in French, but not

translated. Frequent lectures are given by the instructor on the general state of literature in France in the seventeenth, eighteenth, and nineteenth centuries. At each recitation translation from English into French is made. In addition, each member of the class must make, twice during the year, a more extensive study of some one particular writer. The class exercises are largely conducted in French. *Wed., Fri., at 10.* 39 F. H. PROFESSOR KUHNS. (III.)

Course IV. is elective, with the permission of the instructor, for those who take, or have taken, Course III.

V. OLD FRENCH. The work for 1912–13 consists in the translation of Old French texts, and the study of Old French literature, with special reference to its influence on the literatures of the other nations of Western Europe. Lectures, collateral readings, and reports will form part of the work. *Mon., at 10.* 39 F. H. PROFESSOR KUHNS. (III.)

Course V. is elective for those who have taken Courses I.–IV.

*VI. FRENCH. This course is especially designed to meet the needs of those who intend to teach French. It includes the study of grammar and composition, phonetics of French pronunciation, methods of teaching, bibliography, and other appropriate topics. All class exercises are conducted in French. *Th., at 3.* 39 F. H. PROFESSOR KUHNS. (XII.)

Course VI. is elective, with the permission of the instructor, for those who have taken Courses I.–IV.

[VII. ELEMENTARY ITALIAN. Grandgent's Italian Grammar. De Amicis, Cuore; Manzoni, I Promessi Sposi; Fogazzaro, Pereat Rochus; Guida degli Stati Uniti per l'Immigrante Italiano. In addition to the regular work by the class in translating modern prose, the instructor translates and interprets to the class the Inferno and the Purgatorio of Dante, a portion of each recitation being devoted to this exercise. As a preparation for this part of the work, the class is required to read Gardner's Dante (in Temple Primers). *Twice a week.* PROFESSOR KUHNS.]

Course VII. is elective for Sophomores who have taken I. French. It is omitted the present year.

VIII. ADVANCED ITALIAN. Dante, Petrarch, Tasso, Ariosto. Lectures on the history of Italian literature. *Mon., Wed., at 8.* 39 F. H. PROFESSOR KUHNS. (I.)

Course VIII. is elective for those who have taken Course VII.

IX. DANTE IN ENGLISH. The New Life and the Divine Comedy are read in English translations. The instructor interprets these books in the light of the history, science, theology, and philosophy of the Middle Ages, comparing Dante with Homer, Shakespeare, and other world-poets, and showing his influence on modern thought, art, and literature. *Fri., at 8.* 39 F. H. PROFESSOR KUHNS. (I.)

Course IX. is elective for Juniors.

X. ELEMENTARY SPANISH. Grammar, and reading of simple Spanish prose. *Tu., Th., at 2.* 39 F. H. MR. MANN.

Course X. is elective for Sophomores who have taken I. French.

[XI. ADVANCED SPANISH. A course in Spanish literature, with especial emphasis on the chief writers. *Twice a week.*]

Course XI. is elective for those who have taken Course X. It is omitted the present year.

GRADUATE INSTRUCTION.

Course V. is designed for graduate students, but is elective for undergraduates.

ENGLISH LITERATURE.

PROFESSOR WINCHESTER; MR. GILLET.

I. GENERAL INTRODUCTION TO ENGLISH LITERATURE. An outline of the history of the literature, with class-room reading and discussion of representative works illustrative of different varieties and periods of English Literature. Moody and Lovett's History of English Literature is used as a text-book, with Cunliffe, Pyre and Young's Century Readings for a Course in English Literature. SECTION 1, *Mon., Wed., Fri., at 12.* SECTION 2, *Mon., at 12; Tu., Th., at 3.* SECTION 3,

Mon., at 12; Wed., Fri., at 8. 14 F. H. (sections in 12 F. H.). PROFESSOR WINCHESTER and MR. GILLET. (V.)

Course I. is elective for Sophomores.

II. SIX PLAYS OF SHAKESPEARE. *Mon., Wed., Fri., at 9.* 14 F. H. PROFESSOR WINCHESTER. (II.)

[III. ENGLISH POETRY, 1789–1832. Burns, Wordsworth, Coleridge, Scott, Byron, Shelley, Keats. *Three times a week.* PROFESSOR WINCHESTER.]

[IV. ENGLISH LITERATURE OF THE VICTORIAN PERIOD. Carlyle, Ruskin, Arnold, Tennyson, Browning. *Three times a week.* PROFESSOR WINCHESTER.]

V. LITERATURE OF THE LATTER HALF OF THE NINETEENTH CENTURY. Stevenson, Newman, Arnold, Rossetti, Morris, Swinburne, and Meredith. *Mon., Wed., at 10.* 29 F. H. MR. GILLET. (III.)

Courses II., III., IV., and V. are elective for those who have taken Course I. Courses III. and IV. are omitted the present year.

[*VI. LITERATURE OF THE PERIOD OF QUEEN ANNE. Defoe, Steele, Addison, Swift, Bolingbroke, Pope. *Twice a week.* PROFESSOR WINCHESTER.]

[*VII. ESSAYISTS AND REVIEWERS OF THE EARLY NINETEENTH CENTURY. Jeffrey, Hazlitt, De Quincey, Lamb, Wilson, Hunt. *Twice a week.* PROFESSOR WINCHESTER.]

*VIII. NEW ENGLAND LITERATURE, 1835–1885. Emerson, Longfellow, Lowell, Hawthorne, Whittier, Holmes. *Mon., Wed., at 11.* 23 F. H. PROFESSOR WINCHESTER. (IV.)

Courses VI., VII., and VIII. are elective, with the permission of the instructor, for those who have taken Course I., either Course II., Course III., or Course IV., and Course IX. Courses VI. and VII. are omitted the present year.

IX. ELEMENTS OF LITERARY CRITICISM. Discussion of the essential elements and the various forms of literature, with practical exercises in the application of critical principles.

Winchester's Principles of Literary Criticism is used as a text-book. *Fri., at 11.* 14 F. H. PROFESSOR WINCHESTER. (IV.)

Course IX. is elective for those who have taken Course I.

A course in Public Speaking, elective for Seniors, is given under the direction of Professor Winchester and Mr. Wetzel. (See page 67.)

GRADUATE INSTRUCTION.

Special provision for graduate instruction is made to meet the wants of individual students.

ENGLISH LANGUAGE.

PROFESSOR MEAD; MESSRS. GILLET AND EMSLEY.

I. ENGLISH COMPOSITION. A. Rhetoric. Text-books:—Canby's English Composition in Theory and Practice; Woolley's Handbook of Composition. The members of the class are required to write numerous exercises and brief themes illustrating and applying the principles laid down in the text-books. These exercises and themes are discussed and criticised in the class-room, and also at hours appointed by the instructor.

B. Reading. Exemplary and illustrative readings are studied in class and furnish models for practice in the various types of writing. The members of the class are also required to write essays on a number of longer complete works of literature read outside of class. SECTION 1, *Wed., Fri., at 8.* 29 F. H. SECTION 2, *Tu., Th., at 10.* 12 F. H. SECTION 3, *Tu., Th., at 11.* 12 F. H. SECTION 4, *Mon., Fri., at 11.* 29 F. H. MESSRS. GILLET and EMSLEY. (IV.)

Course I. is required of Freshmen. It counts as ***three hours*** a week for the year.

II. ENGLISH COMPOSITION. Sophomores are required to write six essays during the year on subjects approved by the instructor. All the written work receives the personal attention of the instructor, and appointments for individual criticism are made for each member of the class.

All essays are required to conform in details to the precepts laid down in Woolley's Handbook of Composition.

The essays of Sophomore year are rated as the equivalent of one hour's work per week for the year; this hour is included in the minimum quota (15) prescribed for the year. PROFESSOR MEAD.

[III. THE ENGLISH ESSAY. A course in the development and types of the essay in English from both the literary and the rhetorical points of view. Bronson's English Essays, supplemented by lectures, class-room discussions, written reports on assigned collateral reading, and occasional essays modeled, so far as is practicable, after the forms and styles studied. *Twice a week.* MR. GILLET.]

Course III. is elective for Juniors, and for Sophomores with the permission of the instructor. It is omitted the present year.

IV. ADVANCED ENGLISH COMPOSITION. A study of various types of composition, with constant practice in theme-writing. The written work is criticised in the class-room, and also at hours appointed by the instructor for personal conference. Wednesday at 3 is reserved for criticism. *Mon., at 3 (counting as two hours).* 29 F. H. PROFESSOR MEAD. (VI.)

Course IV. is elective for Juniors.

[V. OLD ENGLISH (Anglo-Saxon). This course is fundamental to the study of the English language and Early English literature. The principal reading at the outset is in the Gospel of St. John. The grammar is drawn from Bright's Anglo-Saxon Reader, with copious illustrations and explanations based upon the texts read. In the second half-year the reading is mainly in Old English poetry and in prose illustrating important periods of Old English history. A lecture once a week explains the relations of the Old English language to modern English and outlines the main features of Old English civilization. *Three times a week.* PROFESSOR MEAD.]

Course V. is elective for Juniors, and, with the permission of the instructor, for Sophomores. It is omitted the present year.

VI. THE AGE OF CHAUCER. A study of fourteenth century literary and social life as reflected in Chaucer's Canterbury Tales, Piers the Plowman, and the verse romances.

Lectures discussing typical aspects of social, religious, industrial, and court life, with assigned readings, and class discussions. *Wed., Fri., at 12.* 29 F. H. PROFESSOR MEAD. (V.)

Course VI. is elective for Juniors.

VII. HISTORY OF THE ENGLISH LANGUAGE. The aim of this course is to show in lectures and class discussions how English life and culture are illustrated by changes in the meaning of words since the Norman Conquest. Special attention is given to the formation of a working English vocabulary. As far as possible the work is brought into connection with the study of literature. The collateral work involves the use of various books of reference, and in particular of Krapp's Modern English, Trench's English Past and Present, and Skeat's Concise Etymological Dictionary. *Tu., Th., at 11.* 29 F. H. PROFESSOR MEAD. (X.)

Course VII. is elective for Juniors.

VIII. ARTHURIAN ROMANCES. The sources and history of the Arthurian Romances. Class readings in some of the better known forms of Arthurian story, such as Malory's Morte d'Arthur, Tennyson's Idylls of the King, Swinburne's Tale of Balen, and lectures on the older literature that furnished material to Tennyson and other modern poets. The social conditions out of which the romances grew receive special attention. *Tu., Th., at 12.* 29 F. H. PROFESSOR MEAD. (XI.)

Course VIII. is elective for Juniors.

[IX. ENGLISH FICTION. The historical development of the novel, with a brief introductory study of the theory of narrative composition. Perry,—A Study of Prose Fiction; Cross,—Development of the English Novel. Lectures, assigned readings, class papers, and discussions. PROFESSOR MEAD.]

Course IX. is elective for Juniors. It is omitted the present year.

PUBLIC SPEAKING.

MR. WETZEL.

PUBLIC SPEAKING. Instruction in the course in public speaking is given in three sections, one for each of the three upper classes. The courses are so arranged as to give the

student a systematic and progressive course of training in the art of oral expression and delivery. Special training is provided for those who enter the various contests in public speaking.

A. SOPHOMORES. Special attention is given to vocal training, articulation, and pronunciation. This course includes systematic practice in oral expression and delivery, with special reference to the principles of gesture and to the fundamental characteristics of expression, viz.: pause, touch, change of pitch, inflection, movement, and tone-color. *Sat., at 9.* 13 F. H.

B. JUNIORS. Argumentation and Debate. Lectures on the principles of debate, the laws of argumentation, and the art of debate. Study of selected models. Regular debates before the class on leading questions, for criticism on arrangement and presentation of arguments. *Sat., at 10.* 13 F. H.

Course B is elective for those who have shown efficiency in Course A, or who have been on university debating teams.

C. SENIORS. A course in the composition and delivery of the different forms of public address. The student is required to deliver one original speech before the class each month. These are criticised by Professor Winchester before being delivered. *Sat., at 11.* 13 F. H.

These courses meet once a week for twenty weeks. Courses A and B count half an hour, Course C one hour, for the year.

HISTORY.

PROFESSOR DUTCHER; MR. SENNING.

I. ENGLISH HISTORY. The History of England from the earliest times to the present day. Tout's Advanced History of Great Britain is used as the text-book, and there is required, in addition, the reading of Wakeman's Introduction to the History of the Church of England, Cheyney's Introduction to the Industrial and Social History of England, Montague's Elements of English Constitutional History, and a few selections from Adams and Stephens's Select Documents of English

Constitutional History. Lectures and recitations. *Mon., Wed., Fri., at 8.* 15 F. H. (I.)

Course I. is elective for Freshmen who have credit for one unit in history on admission. This course is the only one in the second required group of studies (see p. 102) open to Freshmen. Owing to its elementary character this course should be elected not later than the Sophomore year. Course I., or its equivalent, is prerequisite to the advanced courses in history.

Students electing history as their major study must take Course I. not later than the Sophomore year. Students may then elect to make their major work in either American or European history, and must complete the twelve hours required for a major in this department from either Courses II.–V., or Courses VII.–IX.

[II. HISTORY OF THE EXPANSION OF EUROPE. First semester: Portuguese, Spanish, French, Dutch, and English exploration, trade, and colonization in America, Africa, and Asia from the time of Henry the Navigator to the middle of the eighteenth century, with special attention to the administrative systems, the regulation of trade and industry, the treatment of weaker races, the activities of Christian missionaries, and similar problems. Second semester: a similar study of the period since the middle of the eighteenth century, with special reference to the English in India, Canada, Australia, and South Africa, to the Dutch in the East Indies, to the liberation of South America, and to the partition of Africa. Lectures, recitations, and essays. *Three times a week.* PROFESSOR DUTCHER.]

Course II. is elective for those who have taken, or are taking, Course V. It is omitted the present year.

[III. ANCIENT HISTORY. First semester: after a brief survey of the earliest times, the history of Greece from the beginning of the Persian wars, and of Rome from the beginning of the Punic wars, is carried to the battle of Actium, 31 B. C. Second semester: the history of the Roman empire from the supremacy of Augustus, 31 B. C., and of the so-called Dark Ages

to the death of Charles the Great, 814 A. D., with special attention to the rise of Christianity and of Mohammedanism. Lectures, recitations, and essays. *Three times a week.* PROFESSOR DUTCHER.]

Course III. is elective for Sophomores who have attained a grade of three in Course I., and for Juniors and Seniors who have taken any three-hour course in history or at least five hours of Greek or five hours of Latin. By special permission of the instructor, either semester may be elected separately, though it is strongly advised that the course be taken as a whole.

In addition to Course III., students are referred to certain supplementary courses offered by the departments of Latin and Greek. In addition to the various courses in which historical texts and materials are read, there are the following courses devoted primarily to the study of the life, institutions, and culture of the Greeks and Romans: VIII. Latin (Roman Literature), XVI. Latin (Roman Private Life and Social Institutions), XIX. Latin (Roman Topography and Public Buildings), IV. Greek (History of Greek Literature), and X. Greek (Greek and Roman Mythology); but XX. Latin (Roman Political Institutions and Law) and XI. Greek (Greek Civilization) are especially recommended.

IV. MEDIAEVAL HISTORY. First semester: from the death of Charles the Great, 814 A. D., to the close of the Hundred Years' War and the fall of Constantinople, 1453, with the Empire, the Papacy, and France as the central factors, and with special attention to feudalism, the crusades, the rise of the towns, the development of culture and of the vernacular literatures, and the rise of the universities. Second semester: the Renaissance, the age of discovery, the Protestant Reformation, the Counter-Reformation, and the wars of religion, to the treaties of Westphalia, covering approximately from 1453 to 1660. Emerton's Mediaeval Europe, and Hassall's Periods of European History, volumes 1–4. Lectures, recitations, and essays. *Mon., Wed., Fri., at 10.* 15 F. H. PROFESSOR DUTCHER. (III.)

Course IV. is elective for Sophomores who have attained a grade of three in Course I., and for Juniors and Seniors who

have taken any three-hour course in history. Courses III. and IV. are given in alternate years, Course III. being omitted the present year.

V. MODERN EUROPEAN HISTORY. First semester: the age of Louis XIV., the rise of Russia and of Prussia, the enlightened despotism, and the French Revolution, covering from about 1660 to the close of the National Convention in 1795. Second semester: the Napoleonic era, the Holy Alliance, the revolutionary movements, the development of constitutional government, the unification of Germany and of Italy, with some review of the more important events and movements since 1870. Stephens's Syllabus of Modern European History, Grant's French Monarchy, and Hassall's Periods of European History, volumes 5–8. Lectures, recitations, and essays. *Mon., Wed., Fri., at 12.* 15 F. H. PROFESSOR DUTCHER. (V.)

Course V. is elective for Sophomores who have attained a grade of three in Course I., and for Juniors and Seniors who have taken any three-hour course in history.

For Courses II.–V., ability to read at least one modern language besides English is almost indispensable.

*VI. HISTORY SEMINARY. During the year 1912–13, special topics in European history from 1660 to 1795 are studied. This course is intended to afford training in historical method. Topics for individual research and report are regularly assigned and the work of the student is subject to the constant supervision and criticism of the instructor. At the close of the year, each student is required, as a test of his ability to do historical research and to present his results in a correct and lucid manner, to prepare an essay or thesis of considerable length upon some topic studied in the course. *Wed., 7–10 p. m. (first and second terms), counting as two hours for the year.* 10 F. H. PROFESSOR DUTCHER.

Course VI. is elective, with the permission of the instructor, for Seniors who have shown, in earlier courses in the department, ability to do advanced work in history.

VII. UNITED STATES HISTORY, 1750–1829. First semester: the French and Indian war, the English colonial system and

the struggle precipitated by the attempts of George III. and his ministers to remodel it, the war for independence, the confederation, the framing and ratification of the state and federal constitutions. Second semester: the first six presidents, their personalities, problems, and policies, the problem of relations with Europe, the war of 1812, the Monroe doctrine, national expansion, growth of democracy. The important constitutional, political, economic, and social developments will be emphasized. Hart's Formation of the Union will be used as a syllabus. Readings from Hart's American Nation series and other standard works will be required. Lectures, recitations, and essays. *Tu., Th., Sat., at 10.* 15 F. H. MR. SENNING. (IX.)

Course VII. is elective for those who have taken any three-hour course in history, or any two-hour course in economics.

VIII. UNITED STATES HISTORY, 1829–1913. First semester: the personalities, policies, and achievements of the more important presidents and political leaders, and the important constitutional, political, economic, and social developments to the outbreak of the civil war. Second semester: the civil war, reconstruction, the new economic and social problems, the United States as a colonial and world power. Wilson's Division and Reunion is used as a syllabus. Readings from Hart's American Nation series and other standard works are required. Lectures, recitations, and essays. *Tu., Th., Sat., at 8.* 15 F. H. MR. SENNING. (VII.)

Course VIII. is elective for those who have taken any three-hour course in history, or any two-hour course in economics.

IX. POLITICAL SCIENCE. First semester: the consideration of the origin, nature, functions, and organization of the state. Garner's Introduction to Political Science. Second semester: municipal government, its problems and methods in Europe and America. Munro's Government of European Cities, and Munro's Government of American Cities. Lectures, recitations, and discussions. *Mon., Wed., Fri., at 8.* 14 F. H. MR. SENNING. (I.)

Course IX. is elective for those who have taken any three-hour course in history, or any two-hour course in economics.

ECONOMICS AND SOCIAL SCIENCE.

PROFESSOR FISHER; MR. GOWIN.

I. PRINCIPLES OF ECONOMIC SCIENCE. General introductory course. Recitations and discussions. SECTION 1, *Mon., Wed., at 9;* SECTION 2, *Tu., Th., at 9.* 15 F. H. PROFESSOR FISHER. (VIII.)

Course I. is elective for Juniors; with the permission of the instructor, it may be taken by Sophomores.

II. ADVANCED ECONOMICS. This course includes a brief historical view, on the basis of Haney's History of Economic Thought, and critical studies of the theory of value, with special reference to money, wages, and international trade. *Mon., Wed., at 11.* 15 F. H. PROFESSOR FISHER. (IV.)

Course II. is elective for those who have taken Course I. It is given in alternate years with Course III., and will be omitted in 1913–14.

[III. PUBLIC FINANCE. The economy of the state:—revenues from taxation, from government industries, and from other sources; the contraction, administration, conversion, and liquidation of public debts; government expenditures, their social and industrial effects. The work of this course is based on a text-book; a number of lectures are also given, and references are made to standard authorities. *Twice a week.* PROFESSOR FISHER.]

Course III. is elective for those who have taken Course I. It is given in alternate years with Course II., and is omitted the present year.

[IV. This course consists of three parts. 1. MONEY AND BANKING. A course on the general principles and history of monetary and banking institutions, on the social and industrial aspects of the present monetary situation, and on the various schemes for reform. 2. THE TRUST PROBLEM. A discussion of industrial combinations, their causes, methods, and effects, and the means of social control. 3. THE TARIFF. A study of the theory of protective customs duties and of the history of tariffs in America. *Twice a week.* PROFESSOR FISHER.]

Course IV. is elective for those who have taken Course I. It is given in alternate years with Course V., and is omitted the present year.

V. THE GENERAL LABOR PROBLEM. A course of lectures on the nature, causes, and justification of the present social discontent, and on such suggested remedies as moral elevation, charity, education, provident institutions, labor organizations, strikes, conciliation and arbitration, labor legislation, improved wage systems, profit-sharing, coöperation, nationalization of the land, socialism, communism, anarchism. *Tu., Th., at 11.* 15 F. H. PROFESSOR FISHER. (X.)

Course V. is elective for those who have taken Course I. It is given in alternate years with Course IV., and will be omitted in 1913–14.

VI. PRINCIPLES OF SOCIOLOGY. An introductory course designed to set forth the development of society and the fundamental social institutions. Evolution of the great departments of social life, illustrated by many classified data, the course being concluded by a summary of sociological theory. *Wed., Fri., at 12.* 12 F. H. MR. GOWIN. (V.)

Course VI. is elective for those who have taken, or are taking, Course I.

VII. APPLIED SOCIOLOGY. Theory of progress. Proposed methods of social reform historically considered. Heredity and environment in relation to dependents, defectives, and delinquents. The origins and social treatment of these abnormal classes. The class-room work is supplemented by visits to several of the charitable, penal, and reformatory institutions in and about Middletown. *Tu., Th., at 10.* 11 F. H. MR. GOWIN. (IX.)

Course VII. is elective for those who have taken, or are taking, Course I.

*VIII. ECONOMICS SEMINARY. Each member of the seminary takes for private individual investigation, under the direction of the instructor, some problem in economics, finance, statistics, or social science, and week by week reports in class on progress made and obstacles met. At the close of

the year the work is brought together in a final report or thesis. The work for the year 1912–13 is related to the problems of labor as discussed in Course V. *Mon., 7–10 p. m. (first and second terms), counting as two hours for the year.* 10 F. H. PROFESSOR FISHER.

Course VIII. is elective, with the permission of the instructor, for those who, having received first or second grade in Course I., take any two of Courses III.–VII.

[IX. STATISTICS. The scientific method, its origin, progress, and application at present to the study of society. Materials of economics and sociology, and methods of research. Statistics: averages, index-numbers, interpolation, graphic method, illustrated by original problems. Administrative statistics. *Twice a week.* MR. GOWIN.]

Course IX. is elective for those who have taken Course I. It is given in alternate years with Course X., and is omitted the present year.

X. ANTHROPOLOGY. (*a*) Physical anthropology: evolution of man in its physical aspects. Races, their classification and distribution. (*b*) Cultural anthropology: materials drawn in the main from American anthropology. Archaeological remains, arts, and industries, languages, myths, religions, social customs and organization of primitive peoples. (*c*) Race problems in America, as found in the Indian, the Negro, and immigration. *Tu., Th., at 9.* 11 F. H. MR. GOWIN. (VIII.)

Course X. is elective for those who have taken Course I. It is given in alternate years with Course IX., and will be omitted in 1913–14.

XI. SOCIAL PSYCHOLOGY. Interplay of individual mind and social mind. Evolution of the social mind. Laws of suggestion and imitation; mob mind, "fad," "craze," sect, fashion, convention, custom, folkways, and *mores*. Leadership, hero-worship, genius, innovation, individuality. An interpretation of society in terms of its chief psychic factors. *Tu., Th., at 12.* 12 F. H. MR. GOWIN. (XI.)

Course XI. is elective for those who have taken Course VI. or Course VII. It is given in alternate years with Course XII., and will be omitted in 1913–14.

[XII. SOCIAL THEORY. The development of social theory, historically considered. Contributions of Comte, Spencer, Bagehot, Ward, Gumplowicz, Giddings, Ross, and others. Current sociological literature. Status of sociology as a science, and its application to modern social problems. Lectures, readings, papers, discussions. *Twice a week.* MR. GOWIN.]

Course XII. is elective for those who have taken Course VI. It is given in alternate years with Course XI., and is omitted the present year.

GRADUATE INSTRUCTION.

Course VIII. is intended primarily for graduate students, but is also open to such undergraduates as are making special studies in the department. Courses II.–VII. and IX.–XII., while intended primarily for undergraduates, may also be taken with advantage by graduates who have studied only the principles of economic science.

It will be noted that in each of the college classes certain courses cannot be taken at all except by such students as take Course I. in the Sophomore year. Hence a student in an odd-numbered class who wishes to take Course III., IV., IX., or XII., must qualify himself to take it in his Junior year by taking Course I. in his Sophomore year; and similarly a student in an even-numbered class can take Courses II., V., X., and XI., only by taking Course I. in his Sophomore year. It should be noted, however, that Course I. may be taken in the Sophomore year only with the permission of the instructor.

PHILOSOPHY.

PROFESSORS ARMSTRONG AND DODGE.

I. ELEMENTARY COURSE. 1. LOGIC. Jevons-Hill's Elements of Logic. An elementary course in the fundamental forms of reasoned thinking, deductive and inductive alike. SECTION 1, *Mon., Fri., at 11*; SECTION 2, *Tu., Th., at 11 (first half-year).* 28 F. H. 2. PSYCHOLOGY. Lectures and recitations based on Pillsbury's Essentials of Psychology, and references to other standard authorities. SECTION 1, *Mon., Wed.,*

at 11; SECTION 2, *Mon., Th., at 11*; SECTION 3, *Mon., Fri., at 11 (second half-year).* 14 F. H. PROFESSORS ARMSTRONG and DODGE. (IV.)

Course I. is elective for Sophomores. It is preparatory to all later work in the department, and it should therefore be taken in Sophomore year by all students who plan to elect their major studies in the department, or in Ethics and Religion.

II. PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY. Lectures and class demonstrations, with collateral reading. The course opens with an account of the structure and operation of the nervous system, and the interrelation between mind and body. It includes experimental discussions of the elementary psycho-physical processes and of some of the more complex processes, as time and space, the geometrical illusions, language, motor organization, instinct, habit, and reaction. *Mon., Wed., Fri., at 8.* 22 F. H. PROFESSOR DODGE. (I.)

Course II. is elective for those who have taken Course I., or for those who are taking it in their Junior or Senior year.

III. ADVANCED PSYCHOLOGY. Lectures and reports. Part I. A systematic general account of the emotions and the will. Part II. A more detailed account of special phenomena, including anger, fear, the tender emotions, sympathy, the aesthetic emotions, the religious emotions, emotional prejudice, the motor value of ideas, suggestion and hypnotism, compulsive ideas, etc. *Tu., Th., at 10.* 22 F. H. PROFESSOR DODGE. (IX.)

Course III. is elective for those who have taken Course I.

[IV. EDUCATIONAL PSYCHOLOGY. Lectures, reports, and required readings, constituting a systematic discussion of the laws of mental development and the psychological basis of educational theory and practice. In conjunction with Course I. in philosophy, this course is planned to meet the requirements in educational psychology of those states and cities which demand the professional training of teachers, but it is also intended to serve the needs of those whose interest in the psychological problems of education is non-professional. *Twice a week.* PROFESSOR DODGE.]

Course IV. is elective for those who have taken Course I. It is omitted the present year.

*V. LABORATORY COURSE IN PSYCHOLOGY. Experimental study of special problems. *Mon., 2–4 (counting as one hour for the year).* 22 F. H. PROFESSOR DODGE. (VI.)

Course V. is elective, with the permission of the instructor, for those who have taken Course II.

VI.[1] ADVANCED LOGIC. Hibben's Inductive Logic. A systematic discussion of the origin, the forms, and the limitations of inductive method, with special reference to the estimation of evidence. Concrete cases of legal, historical, and scientific evidence will be analyzed and the practical limits of proof will be discussed. *Tu., Th., at 11 (first half-year).* 24 F. H. PROFESSOR DODGE. (X.)

Course VI. is elective for those who have taken Course I.

[VII.[1] INTRODUCTION TO PHILOSOPHY. Lectures and recitations, with references to the Introductions of Stuckenberg, Ladd, Külpe, and Paulsen. *Twice a week (first half-year).* PROFESSOR ARMSTRONG.]

Course VII. is elective for those who have taken Course I., or who are taking it in their Junior or Senior year. It is omitted the present year.

VIII.[2] ANCIENT AND MEDIÆVAL PHILOSOPHY. Zeller's Outlines of Greek Philosophy, with references to Schwegler, Zeller's larger work, and other authorities; lectures and discussions. *Tu., Th., at 11 (second half-year).* 24 F. H. PROFESSOR ARMSTRONG. (X.)

Course VIII. is elective for those who have taken Course I., or who are taking it in their Junior or Senior year.

IX.[1] HISTORY OF PHILOSOPHY TO KANT. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other standard histories of philosophy. *Mon., Wed., Fri., at 10 (first half-year).* 24 F. H. PROFESSOR ARMSTRONG. (III.)

Course IX. is elective for Seniors who have taken Course I. and Juniors who have received honor grades in Course I.

X.[2] MODERN PHILOSOPHY FROM KANT TO THE PRESENT TIME. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other authorities. In the latter part of the course special consideration is given to contemporary English and American philosophy. *Mon., Wed., Fri., at 10 (second half-year).* 24 F. H. PROFESSOR ARMSTRONG. (III.)

Course X. is elective for those who have taken Course IX.

*XI.[2] PHILOSOPHICAL SEMINARY. Readings in modern philosophy, with especial attention to selections from the classical writers. Reports and theses may be required. *Th., 7:30–9 p. m. (second half-year), counting as one hour for the year.* 24 F. H. PROFESSOR ARMSTRONG.

Course XI. is elective, with the permission of the instructor, for those who are taking Course X.

GRADUATE INSTRUCTION.

Courses III., V., and IX.–XI. are intended for undergraduates and graduates. Special courses for graduate students, under the direction of the instructors of the department, may be arranged in advanced experimental and theoretical psychology, historical philosophy, and metaphysics.

ETHICS AND THE PHILOSOPHY OF RELIGION.

PROFESSOR RICE; ASSOCIATE PROFESSOR DRAKE.

I[1]. ETHICS. The origin and evolution of morality. The theoretic foundations of morality and ultimate criterion for moral decisions. Concrete moral problems, personal and social. Wide readings in the best modern authors. *Tu., Th., Sat., at 9 (first half-year).* 28 F. H. PROFESSOR DRAKE. (VIII.)

Course I. is elective for Juniors.

II.[2] PHILOSOPHY OF RELIGION. The origin and evolution of religion. The great historic religions, with a special study of Christianity. Present-day religious problems. Wide readings in the best modern authors. *Tu., Th., Sat., at 9 (second half-year).* 28 F. H. PROFESSOR DRAKE. (VIII.)

Course II. is elective for those who have taken Course I., and for others by permission of the instructor.

III.[1] THE ENGLISH BIBLE. A study, historical and interpretative, of the Old Testament. Macfadyen's Introduction to the Old Testament and Cornill's Prophets of Israel will be used in connection with the reading of the Biblical books. *Tu., Wed., Th., at 12 (first half-year).* 24 F. H. PROFESSOR DRAKE. (XI.)

Course III. is elective for Juniors.

IV.[2] THE ENGLISH BIBLE. A study, historical and interpretative, of the New Testament. Bacon's Introduction to the New Testament is used in connection with the reading of the Biblical books. *Tu., Wed., Th., at 12 (second half-year).* 24 F. H. PROFESSOR DRAKE. (XI.)

Course IV. is elective for those who have taken Course III.

V.[2] RELATIONS OF SCIENCE AND RELIGION. Lectures and recitations on the history of important advances in scientific thought and their bearing upon theistic and Christian belief. The heliocentric astronomy, the antiquity of the earth and of man, the correlation of physical and vital forces, and the theory of evolution are among the topics discussed. Rice's Christian Faith in an Age of Science is used as a text-book. *Tu., Th., at 10 (second half-year).* PROFESSOR RICE. (IX.)

Course V. is elective for Juniors.

VI. ETHICAL SEMINARY. Topic for 1912–13: Great Ethical Teachers—Plato, Aristotle, Marcus Aurelius, Rousseau, Goethe, Carlyle, Mill, Ruskin, Matthew Arnold, Emerson, Tolstoi, and others. *Tu., 3 to 4:45 (counting as two hours for the year).* PROFESSOR DRAKE. (XII.)

Course VI. is elective for those who have taken, or are taking, Course I.

MATHEMATICS AND ASTRONOMY.

ASSOCIATE PROFESSORS HOWLAND AND CAMP; DR. LAMOND.

I.[1] SOLID GEOMETRY. SECTION 1, *Mon., Wed., Fri., at 9;* SECTION 2, *Tu., Th., Sat., at 9;* SECTION 3, *Tu., Th., Sat., at*

8 (first half-year). 25 and 26 O. H. PROFESSORS HOWLAND and CAMP, and DR. LAMOND. (II.)

Course I. is elective for Freshmen.

II. TRIGONOMETRY. SECTION 1, *Mon., Wed., Fri., at 9;* SECTION 2, *Tu., Th., Sat., at 9;* SECTION 3 *(second half-year only), Tu., Th., Sat., at 8.* 25 and 26 O. H. PROFESSORS HOWLAND and CAMP, and DR. LAMOND. (VIII.)

Course II. is elective for Freshmen. It is given both half-years.

III.[2] ANALYTIC GEOMETRY. SECTION 1, *Mon., Wed., Fri., at 9;* SECTION 2, *Tu., Th., Sat., at 9 (second half-year).* 25 and 26 O. H. PROFESSOR HOWLAND and DR. LAMOND. (II.)

Course III. is elective for those who have taken Course II.

In fulfilment of the requirements for the degree of B. S. a candidate must present on admission, or take in Freshman year, two of the following subjects:—solid geometry, trigonometry, analytic geometry. As a substitute for any one of them, except trigonometry, he may offer advanced algebra on admission.

IV. PLANE SURVEYING. The theory and use of chain, tape, compass, level, transit, and sextant. Surveying methods, problems, and computations, together with practical field and office work. *Tu., Th., at 8, and two hours of field-work, four hours counting as three.* 26 O. H. DR. LAMOND. (VII.)

Course IV. is elective for those who have taken Course II.

V.[1] ALGEBRA. An elementary college course, including the following topics: mathematical induction, probability, series, undetermined coefficients, determinants, Horner's method, etc. *Mon., Wed., Fri., at 11 (first half-year).* 25 O. H. PROFESSOR CAMP. (IV.)

Course V. is elective for those who have taken Course III.

VI.[2] ANALYTIC GEOMETRY. Advanced course, beginning with a review of Course III., and extending into the subject of solid analytic geometry. *Mon., Wed., Fri., at 11 (second half-year).* 25 O. H. PROFESSOR HOWLAND. (IV.)

Course VI. is elective for those who have taken Course III.

Students are advised to take Courses V. and VI. the same year.

VII. DIFFERENTIAL AND INTEGRAL CALCULUS. Elementary course. *Mon., Wed., Fri., at 8.* 26 O. H. PROFESSOR HOWLAND. (I.)

Course VII. is elective for those who have taken Course III.

[VIII. CALCULUS. In this course it is intended to give in the first half-year a more extended discussion of some of the subjects introduced in Course VII., and in the second half-year an introduction to the theory of differential equations, with applications to geometry, mechanics, and physics. *Three times a week.* PROFESSOR HOWLAND.]

Course VIII. is elective for those who have taken Course VII. It is omitted the present year.

[IX.[1] THEORY OF ALGEBRAIC CURVES. An introductory course. *Three times a week.* PROFESSOR HOWLAND.]

Course IX. is omitted the present year.

X.[2] HIGHER ALGEBRA. An introduction to some of the important branches of higher algebra; properties of polynomials, system of linear equations, linear transformations, invariants, quadratic forms, etc. *Mon., Wed., Fri., at 9 (second half-year).* PROFESSOR HOWLAND. (II.)

Courses IX. and X. are elective for those who have taken Courses V., VI., and VII.

[XI[1]. INFINITE SERIES. Convergence, uniform convergence, differentiation and integration of series of functions of one variable; the use of series in computing; an introduction to the subject of Fourier's series, with applications to simple problems in the flow of heat and electricity. *Three times a week (first half-year).* PROFESSOR CAMP.]

Course XI. is elective for those who have taken Course VII., or who have taken Course V. and are taking Course VII.

[*XII.[1] REDUCTION OF OBSERVATIONS. This course deals with the general problem of obtaining from a set of observations the best possible result, and a measure of its

reliability. It includes the following topics: interpolation by means of finite differences, probable error, and the method of least squares, with applications to simple problems in physics and astronomy. *Three times a week (first half-year).* PROFESSOR CAMP.]

Course XII. is elective, with the permission of the instructor, for those who have done some advanced work in the department.

Courses XI. and XII. are omitted the present year, but one of them will probably be given in 1913–14.

XIII. MECHANICS. This course is intended partly for students of mathematics, and partly for scientific students who are preparing to study engineering or mathematical physics. Among the topics treated are: the simpler machines, stresses in frames, the suspension bridge, projectiles, central forces, moments of inertia, and the governor. *Mon., Wed., Fri., at 12.* 26 O. H. PROFESSOR CAMP. (V.)

Course XIII. is elective for those who have taken Course VII. It will be omitted in 1913–14.

XIV.[1] DESCRIPTIVE ASTRONOMY. Lectures and recitations. This course is designed to give such a knowledge of the subject as may properly constitute a part of a liberal education. Mathematical topics are eliminated as far as practicable. Opportunities of viewing the principal celestial objects through the telescope are given. Moulton's Introduction to Astronomy is used as a text-book. *Tu., Th., Sat., at 10 (first half-year).* 25 O. H. PROFESSOR CAMP. (IX.)

Course XIV. is elective for those who have taken Course I.

XV.[2] PRACTICAL ASTRONOMY. The theory and use of the transit, zenith telescope, sextant, and equatorial. In this course some of the mathematical topics omitted in Course XIV. are considered, but most of the time is devoted to work in the observatory. *Tu., Th., Sat., at 10 (second half-year).* 25 O. H. PROFESSOR CAMP. (IX.)

Course XV. is elective for those who have taken Courses III. and XIV.

DESCRIPTIVE GEOMETRY AND MECHANICAL DRAWING.

DESCRIPTIVE GEOMETRY AND MECHANICAL DRAWING. Lectures and recitations, based on text-books, together with practice in the draughting room. Problems in descriptive geometry are taken up relating to points, lines, planes, and surfaces, their intersections and developments, etc. The course includes also the care and use of drawing instruments, mechanical drawing from objects, sketching, lettering, dimensioning, isometric projection, etc. *Mon., Wed., Fri., 10–12, counting as three hours for the year.* 40 S. L. DR. LAMOND. (III.)

This course is elective for those who have taken Course I. in mathematics.

PHYSICS.

PROFESSORS CRAWFORD AND CADY.

I. ELEMENTARY PHYSICS. A general course, conducted by lectures, with experimental illustrations, following a standard text-book. A two-hour laboratory period is substituted for the regular lecture about once a fortnight, the class being divided into sections for this purpose. *Mon., Wed., Fri., at 10.* 34 S. L. PROFESSORS CRAWFORD and CADY. (III.)

Course I. is elective for those who have taken, or are taking, Course II. in mathematics. Those who cannot take Course II. in mathematics till the second half-year must attend and pass in a brief course of lectures in trigonometry at the beginning of the fall term. Those who elect Course I. are advised also to elect Course I. A. Students who have received credit in physics on admission to college, but who elect to take Course I. in class, in order to be allowed to pursue the more advanced courses in the department, will receive credit for *two* hours on their quota toward graduation.

I.A. PROBLEMS IN PHYSICS. This course is supplementary to Course I., and is devoted chiefly to the solution of problems which illustrate the principles involved in that course. *Th., at 8.* 40 S. L. PROFESSORS CRAWFORD and CADY. (VII.)

Course I.A is elective for those who have taken, or are taking, Course I., and who have taken Course II. in mathematics.

II. ELEMENTARY PRACTICAL PHYSICS. This course is parallel with Course I., and may advantageously be taken with it. It is also required as an introduction to further laboratory work. Each exercise occupies 2½ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* S. L. PROFESSORS CRAWFORD and CADY.

Course II. is elective for those who have taken, or are taking, Course I., or who have received credit in physics on admission.

N. B. Students who receive credit in physics on admission, but who do not take Course I., must give evidence by examination or otherwise of the requisite proficiency before being admitted to any of the following courses:—

[III.[1] PROPERTIES OF MATTER; SOUND. Lectures, with experimental illustrations, following a text-book on sound, preceded by a short course of lectures on elasticity and surface tension. About eight two-hour periods of laboratory practice are substituted for the same number of lectures. *Three times a week (first half-year).* PROFESSOR CRAWFORD.]

Course III. is elective for those who have taken Course I. It is omitted the present year.

[IV.[2] LIGHT. Text-book and lectures, with experimental illustrations, on geometrical optics and the elements of the wave theory of light. Laboratory practice as in Course III. *Three times a week (second half-year).* PROFESSOR CRAWFORD.]

Course IV. is elective for those who have taken Course I., and who have taken, or are taking, Course VII. in mathematics. It is omitted the present year.

V.[1] HEAT. A general course in the subject, omitting thermo-dynamics. Based on a text-book, but including reports by members of the class on recent papers in scientific magazines, and also some laboratory practice. *Mon., Wed., Fri., at 12; Th., at 5 (first term)*†. 34 S. L. PROFESSOR CRAWFORD. (V.)

Course V. is elective for those who have taken Course I.

VI.[2] THERMO-DYNAMICS. Text-book and lectures on the elements of thermo-dynamics, with special application to the

steam engine, and involving a few elementary exercises in engine-testing. *Mon., Wed., Fri., at 12; Th., at 5 (second term)*†. 34 S. L. PROFESSOR CRAWFORD. (V.)

Course VI. is elective for those who have taken Course V., and who have taken, or are taking, Course VII. in mathematics.

VII. APPLICATIONS OF ELECTRICITY AND MAGNETISM. Lectures, laboratory work, and demonstrations, based largely upon a text-book. This course includes the fundamental principles of electricity and magnetism, with frequent references to the historical development; magnetic properties of iron; electrolysis and storage batteries; heat, light, and power; telegraphy and telephony; electric waves, and other applications. *Tu., Th., Sat., at 10.* 34 S. L. PROFESSOR CADY. (IX.)

Course VII. is elective for those who have taken Course I.

VIII. EXPERIMENTAL ELECTRICITY. Laboratory practice in electricity and magnetism, with occasional lectures. Opportunity is afforded for some shop-work, and for practical experience in running an engine and dynamo. Each exercise occupies 2½ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* S. L. PROFESSOR CADY.

Course VIII. is elective for those who have taken Courses I. and II., and who have taken, or are taking, Course VII.

IX. DYNAMOS, MOTORS, AND TRANSFORMERS. Text-book and lectures on the elements of direct and alternating current practice, with laboratory tests by the class. *Tu., Th., at 12; Sat., at 11.* 34 S. L. PROFESSOR CADY. (XI.)

Course IX. is elective for those who have taken Course VII., and who have taken, or are taking, Course VIII. It is advisable, though not necessary, to take Course VII. in mathematics before electing this course.

[X. ADVANCED ELECTRICITY. Text-book and lectures on the elementary mathematical theory of electricity and magnetism. In the second half-year the subject of electrical

† Special arrangement, due to Professor Crawford's absence the third term.

oscillations is especially considered, and the work is in part experimental. *Three times a week.* PROFESSOR CADY.]

Course X. is elective for those who have taken Course VII. in physics and Course VII. in mathematics. It alternates with Course IX., and is omitted the present year.

XI. PRACTICAL PHYSICS. Careful measurements in mechanics, heat, sound, and light. Each exercise occupies 2½ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* S. L. PROFESSOR CRAWFORD.

Course XI. is elective for those who have taken Course II. In general, those electing it will be expected to have taken also one or more of Courses III.–VII.

XII. ADVANCED EXPERIMENTAL ELECTRICITY. Selected problems in electricity and magnetism, particularly in alternating currents, electrical oscillations, and discharge through gases. The course includes reading and lectures as well as experimental work. Each exercise occupies 2½ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* S. L. PROFESSOR CADY.

Course XII. is elective for those who have taken Course VIII. in physics and Course VII. in mathematics, and who have taken, or are taking, either Course IX. or Course X. in physics.

CHEMISTRY.

† PROFESSOR BRADLEY; ASSOCIATE PROFESSOR RENSHAW; DR. WARD.

I. ELEMENTARY CHEMISTRY. Lectures and laboratory practice. The first half-year is devoted to the non-metallic elements; the second half-year, chiefly to the more common metals. *Tu., Th., Sat., at 10.* 3 J. H. PROFESSOR RENSHAW. (IX.)

Course I. is elective for Freshmen. Students who receive credit in chemistry on admission to college may be admitted to the second half of the course and receive credit for it.

† On leave of absence for the year.

II.[1] QUALITATIVE ANALYSIS. A. Lectures on the chemical problems involved in the detection of the more common bases and acids. *Sat., at 11 (first half-year).* 3 J. H. B. Laboratory practice in basic and acid analysis. Each exercise occupies 2½ hours. Those of Monday and Friday are required. *Mon., Fri., at 2, and a third assigned period (first half-year).* CHEM. LAB. DR. WARD. (X.)

Course II. is elective for those who have taken Course I.

III.[2] ELEMENTARY QUANTITATIVE ANALYSIS. A laboratory course in gravimetric analysis, with lectures and class discussions. Each exercise occupies 2½ hours. Those of Monday and Friday are required. *Mon., Fri., at 2, and a third assigned period (second half-year).* CHEM. LAB. DR. WARD.

Course III. is elective for those who have taken Course II.

[IV.[1] LIQUEFACTION OF GASES. Lectures, with experimental demonstrations, upon the history and theory of the liquefaction of gases, and upon some of the more important results of work at low temperatures. *Twice a week (first half-year).*]

Course IV. is elective for those who have taken Course I. It is omitted the present year.

*V. ADVANCED QUANTITATIVE ANALYSIS. A laboratory course in the principles of quantitative analysis, as illustrated by selected gravimetric, volumetric, colorimetric, electrochemical, and gasometric methods, with lectures and class discussions. Written reports are required covering the theory involved. For those who elect this course for four periods it includes the analysis and examination of such material as sugar, milk, butter, cereals; salad, illuminating and lubricating oils; soap, paint, asphalt; water for industrial purposes. Each exercise occupies 2½ hours. Those of Monday and Friday are required. *Mon., Fri., at 2, and one, or two, other assigned periods.* CHEM. LAB. DR. WARD.

Course V. is elective for three periods, with the permission of the instructor, for those who have taken Course III. It is elective for four periods for those who have taken Courses III. and VII.

VI. ORGANIC CHEMISTRY. Lectures and recitations upon the principles of organic chemistry. *Mon., Wed., Fri., at 11.* 3 J. H. PROFESSOR RENSHAW. (IV.)

Course VI. is elective for those who have taken Course II. Course VII. should be elected, if possible, in the same year with Course VI.

VII. ORGANIC CHEMISTRY. A laboratory course devoted to the study of typical reactions of organic chemistry, and to the preparation of carbon compounds. Each exercise is required, and occupies 2½ hours. Lectures are given on Mondays at 2. *Mon., at 2, and two other assigned periods.* CHEM. LAB. PROFESSOR RENSHAW.

Course VII. is elective for those who have taken, or are taking, Course VI. With the permission of the instructor, it may be elected for two periods a week.

VIII. PHYSICAL CHEMISTRY. A lecture course devoted to a systematic treatment of modern chemical theory. The effect of the variables, heat, light, pressure, and electricity, on chemical reactions is studied in detail. Special attention is given to the mass law and the phase rule. *Tu., Th., at 12; Wed., at 9.* 3 J. H. DR. WARD. (XI.)

Course VIII. is elective for those who have taken, or are taking, Course VI.

[IX. INDUSTRIAL CHEMISTRY. Lectures and collateral reading. The object of this course is to give a broad, cultural idea of the chemical processes involved in the manufacture of products of value in modern every-day life. *Twice a week.*]

Course IX. is elective for those who have taken, or are taking, Course VI. It is omitted the present year.

*X.[2] ELECTRO-CHEMISTRY. Lectures. A description of electric processes for the preparation of compounds; electro-thermal and electrolytic extraction and refining of metals; electro-plating; the theories of electrolysis and electrolytic dissociation. *Wed., Fri., at 12 (second half-year).* 3 J. H. DR. WARD. (V.)

Course X. is elective, with the permission of the instructor, for those who have taken Course II.

[*XI.[2] APPLIED ELECTRO-CHEMISTRY. A laboratory course devoted to the study of the phenomena of electrolysis; measurement of electrical constants; determination of current and energy efficiencies in electrolytic work; study of commercial methods of electrolytic plating and refining of metals, and the electro-chemical preparation of pigments and of organic and inorganic compounds in general. Each exercise occupies 2½ hours. *Two exercises a week (second half-year).*]

Course XI. is elective, with the permission of the instructor, for those who have taken, or are taking, Courses V. and X. in chemistry and Course VII. in physics. It is omitted the present year.

[XII.[2] PHYSIOLOGICAL CHEMISTRY. The chemistry of foods, digestion, assimilation, metabolism, respiration, and the excretions. *Twice a week (second half-year).*]

Course XII. is elective for those who have taken Course VI. It is omitted the present year.

[XIII.[2] PHYSIOLOGICAL CHEMISTRY. A laboratory course, devoted to the experimental study of the chemistry of animal tissues and organs, of foods and digestion, and of milk, urine, blood, etc. Each exercise occupies 2½ hours. *Three times a week (second half-year).*]

Course XIII. is elective for those who have taken Course III., and who have taken, or are taking, Course XII. It is omitted the present year.

[XIV. THEORETICAL CHEMISTRY. Lectures upon the origin, development, and present status of the theory of the molecule and the atom. Attention is given to the corpuscular theory of atomic composition, and to the transformations of radio-active elements. *Twice a week.*]

Course XIV. is elective for those who have taken Courses III. and VI. It is omitted the present year.

*XV. CHEMISTRY SEMINARY. Readings in current literature, with reports and discussions upon assigned topics. *Mon., 7–9 p. m. (counting as two hours for the year).* 1 J. H. PROFESSOR RENSHAW.

Course XV. is elective, with the permission of the instructor, for those who have taken, or are taking, Courses VI. and VIII.

GRADUATE INSTRUCTION.

Course XV., although elective for undergraduates, is designed chiefly for graduates.

In addition, the following course is offered:

[XVI. LOW TEMPERATURE INVESTIGATION. Inquiry into special problems connected with the attainment and utilization of low temperatures. Facilities for this work are afforded by the liquid-air plant.]

Course XVI. may also be taken by undergraduates who are candidates for special honors in chemistry at graduation. It is omitted the present year.

GEOLOGY.

PROFESSOR RICE; MR. BARROWS.

I.[2] PHYSICAL GEOGRAPHY. Recitations and lectures, with Salisbury's Physiography for High Schools as a text-book. SECTION 1, *Tu., Th., at 2;* SECTION 2, *Tu., Th., at 3 (second half-year).* 8 J. H. MR. BARROWS. (XII.)

Course I. is elective for Freshmen.

II. GEOLOGY. Elementary course. A course of lectures, chiefly on dynamical and structural geology. Dana's Revised Text-book of Geology is recommended for reference. *Mon., Wed., Fri., at 10.* 8 J. H. PROFESSOR RICE. (III.)

Course II. is elective for Sophomores who have taken I. Chemistry, and for others with permission of the instructor. It is desirable that those who take this course should also have taken the course in physical geography.

III.[1] GEOLOGY. Advanced course in structural and dynamical geology. Recitations and lectures, with Chamberlin and Salisbury's College Text-book of Geology as the text-book. Special topics with references are assigned to members of the class, on which they are to give lectures. Excursions on Saturdays during the fall. The phenomena observed in an

excursion are discussed at the next meeting of the class, one of the members of the class often giving a report thereon. *Mon., Wed., Fri., at 12 (first half-year), counting as four hours a week.* 8 J. H. PROFESSOR RICE. (V.)

Course III. is elective for those who have taken Course II.

IV.[2] GEOLOGY. Historical geology and paleontology. Recitations and lectures, with same text-book as in Course III. Excursions on Saturdays during the spring term (required only of those who take also Course III.). *Mon., Wed., Fri., at 12 (second half-year), counting as four hours a week for those who take also Course III.* 8 J. H. PROFESSOR RICE. (V.)

Course IV. is elective for those who have taken Course II., and who have taken, or are taking, the courses in zoölogy and botany.

[V.[1] MINERALOGY. Crystallography and optical mineralogy. Lectures and practical exercises. Dana's Text-book of Mineralogy is used for reference. *Three times a week (first half-year).* PROFESSOR RICE.]

Course V. is elective for those who have taken I., II., and III. Mathematics, I. Physics, and I. Chemistry. It is omitted the present year.

[VI.[2] MINERALOGY. Determinative and descriptive mineralogy. Laboratory work in determinative mineralogy; lectures on descriptive mineralogy. Brush and Penfield's Manual of Determinative Mineralogy, and Dana's Text-book of Mineralogy, are used for reference. *Three times a week (second half-year).* PROFESSOR RICE.]

Course VI. is elective for those who have taken Course V. It is very desirable that those who take this course should take, or have taken, II. Chemistry. It is omitted the present year.

GRADUATE INSTRUCTION.

Courses III., IV., V., and VI., although intended primarily for undergraduates, have often been taken by graduate students.

Additional work is provided for graduate students. This may include courses of reading in various branches of geological science, field work, or laboratory work.

BIOLOGY.

PROFESSOR CONN; ASSOCIATE PROFESSOR WHITNEY.

I. PERSONAL AND SOCIAL HYGIENE. This course is designed to meet the growing demand that educated persons should have a practical knowledge of the laws of health. Under the head of personal hygiene, it covers such topics as food habits, exercise, the care of the skin, the heart, the respiratory organs, the mind, a discussion of the habits of study, of sex hygiene, etc. Under the head of social hygiene, it covers problems of contagious diseases, and general topics of sanitation which concern the individual's relations to the community. Lectures, with daily written recitations. *Wed., at 3.* 34 S. L. PROFESSOR CONN. (VI.)

Course I. is required of Freshmen, and elective for other students, but only in excess of the minimum quota.

II.[1] GENERAL BIOLOGY. An introduction to the study of botany, zoölogy, and physiology. Lectures, recitations, and laboratory work. *Mon., Fri., 2–4 (first half-year), counting as one hour for the year.* 8 J. H. PROFESSORS CONN and WHITNEY. (VI.)

III.[2] BOTANY. Recitations, lectures, and laboratory work. *Mon., Fri., 2–4 (second half-year), counting as one hour for the year.* 8 J. H. PROFESSOR CONN. (VI.)

Courses II. and III. are elective for Freshmen.

IV. ZOÖLOGY. A study of the types of animals, including their embryology, and certain phases of comparative anatomy, by recitations and lectures. *Mon., Wed., Fri., at 9.* 8 J. H. PROFESSORS CONN and WHITNEY. (II.)

Course IV. is elective for Sophomores.

V. PHYSIOLOGY. The instruction is given chiefly by lectures, with daily written recitations. *Tu., Th., at 11.* 8 J. H. PROFESSOR CONN. (X.)

Course V. is elective for Sophomores.

VI. EVOLUTION. A study of evolution; lectures and recitations. The last half-year is devoted to the study of the evolution of man. *Tu., Th., at 8.* 34 S. L. PROFESSOR CONN. (VII.)

Course VI. is elective for Juniors.

[VII. BACTERIOLOGY. A study of the general subject, with special reference to sanitary problems. *Twice a week.* PROFESSOR CONN.]

Course VII. is elective for Juniors. Courses VI. and VII. are given in alternate years, Course VII. being omitted the present year.

*VIII. BIOLOGY SEMINARY. Readings and reports upon modern biological journals and literature. The work of the seminary is done wholly by the students and involves the presentation of papers upon special topics assigned for study. *Mon., at 4.* 8 J. H. PROFESSOR CONN.

Course VIII. is elective, with the permission of the instructor, for those taking Course XI.

LABORATORY COURSES IN BIOLOGY.

In the following courses two and one-half laboratory hours are required to count as one hour in quota. The laboratory is regularly open every day 8 A. M. to 6 P. M., except Saturday, when it closes at 1 P. M. Instructors are in attendance only on Tuesday, Wednesday, and Thursday afternoons and Tuesday, Thursday, and Saturday mornings. Lectures, which all students are required to attend, accompany the laboratory work.

IX.A. INTRODUCTORY PRACTICAL COURSE. The biology of animals and plants, including the study of cells and cell structure, and followed by the dissection of invertebrates. *Five laboratory hours for the year, or seven and one-half for the first two terms for those who take either of the following courses.* PROFESSORS CONN and WHITNEY.

Course IX.A is elective for Sophomores.

B. VERTEBRATE DISSECTION. *Seven and one-half laboratory hours (third term).* PROFESSOR WHITNEY.

Course IX.B is elective for those who have finished Course IX.A.

C. PRACTICAL BOTANY. Including the study of cryptogams and phenogams. *Seven and one-half laboratory hours (third term).* PROFESSOR CONN.

Course IX.C is elective for those who have completed Course IX.A.

X.A. HISTOLOGY AND MICROSCOPIC ANATOMY. *Five laboratory hours for the year, or seven and one-half for the first two terms for those who take Course X.B.* PROFESSOR WHITNEY.

Course X.A is elective for those who have taken Course IX.A.

B. EMBRYOLOGY. Chiefly the study of the development of the chick. *Seven and one-half laboratory hours per week (third term).* PROFESSOR WHITNEY.

Course X.B. is elective for those who have completed Course X.A.

XI. PRACTICAL BACTERIOLOGY. This course is intended to give the student experience in bacteriological laboratory methods, and includes collateral readings on microbiology. *Five laboratory hours a week for the year.* PROFESSOR CONN.

Course XI. is elective for those who have taken Course X,A.

In individual cases work of a special character may be assigned to students taking Course XI. in place of the regular course in bacteriology. This work may include some problem of research where the student is prepared for it.

DAILY PROGRAM.

The order of lectures and recitations is set forth in the table given on pages 96 and 97. Roman numerals preceding the names of certain studies refer to the numbers of the courses as enumerated in the foregoing statement of courses of instruction. Arabic numerals, following the names of certain studies, indicate the sections into which the classes are divided. The figures [1] and [2] preceding the number of the course indicate respectively first and second half-year.

Laboratory courses in chemistry are held on Monday and Friday afternoons, in physics on Tuesday and Thursday afternoons, with extra periods as determined hereafter. For biology, see page 93.

DAILY PROGRAM, 1912-1913

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8.	[1]V. Greek [2]VI. Greek Italian I. History IX. History II. Philosophy VII. Mathematics	II. German, 1 II. French VIII. History [1]I. Mathematics, 3 [2]II. Mathematics, 3 IV. Mathematics Evolution	[1]V. Greek [2]VI. Greek Italian I. Eng. Literature, 3 I. Eng. Language, 1 I. History IX. History II. Philosophy VII. Mathematics	B. Greek II. German, 1 II. French, 1 VIII. History [1]I. Mathematics, 3 [2]II. Mathematics, 3 IV. Mathematics I.A Physics Evolution	[1]V. Greek [2]VI. Greek Dante in English I. Eng. Literature, 3 I. Eng. Language, 1 I. History IX. History II. Philosophy VII. Mathematics	II. German, 1 II. French, 1 VIII. History [1]I. Mathematics, 3 [2]II. Mathematics, 3
9.	[2]XI. German II. Eng. Literature I. Economics, 1 [1]I. Mathematics, 1 II. Mathematics, 1 [2]III. Mathematics, 1 [2]X. Mathematics Zoölogy	I. Latin, 1 [1]III. Greek [2]IX. Greek IV. German I. Economics, 2 X. Economics [1]Ethics [2]Phil. of Religion [1]I. Mathematics, 2 II. Mathematics, 2 [2]III. Mathematics, 2	II. Greek [1]IX. German [2]XI. German II. French, 2 I. Economics, 1 II. Eng. Literature [1]I. Mathematics, 1 II. Mathematics, 1 [2]III. Mathematics, 1 [2]X. Mathematics Zoölogy	I. Latin, 1 [1]III. Greek [2]IX. Greek IV. German I. Economics, 2 X. Economics [1]Ethics [2]Phil. of Religion [1]I. Mathematics, 2 II. Mathematics, 2 [2]III. Mathematics, 2	II. Greek [1]IX. German [2]XI. German II. French, 2 II. Eng. Literature [1]I. Mathematics, 1 II. Mathematics, 1 [2]III. Mathematics, 1 [2]X. Mathematics Zoölogy	I. Latin, 1 IV. German Pub. Speaking (Soph.) [1]Ethics [2]Phil. of Religion [1]I. Mathematics, 2 II. Mathematics, 2 [2]III. Mathematics, 2
10.	VII. Latin A. Greek I. Greek I. French, 1 V. French V. Eng. Literature IV. History [1]IX. Philosophy [2]X. Philosophy Descriptive Geom. I. Physics II. Geology	XI. Greek III. French I. Eng. Language, 2 VII. History VII. Economics III. Philosophy [2]Science & Religion [1]XIV. Mathematics [2]XV. Mathematics VII. Physics I. Chemistry	A. Greek I. Greek I. French, 1 IV. French V. Eng. Literature IV. History [1]IX. Philosophy [2]X. Philosophy Descriptive Geom. I. Physics II. Geology	XI. Greek I. Eng. Language, 2 VII. History VII. Economics III. Philosophy [2]Science & Religion [1]XIV. Mathematics [2]XV. Mathematics VII. Physics I. Chemistry	VII. Latin A. Greek I. Greek I. French, 1 IV. French IV. History [1]IX. Philosophy [2]X. Philosophy Descriptive Geom. I. Physics II. Geology	XI. Greek Pub. Speaking (Jun.) VII. History [1]XIV. Mathematics [2]XV. Mathematics VII. Physics I. Chemistry

DAILY PROGRAM, 1912-1913—(Continued)

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
11.	I. German, 1 VIII. Eng. Literature I. Eng. Language, 4 II. Economics [1] Logic, 1 [2] Psychology [1] V. Mathematics [2] VI. Mathematics Descriptive Geom. VI. Chemistry	I. Latin, 2 I. German, 2 I. French, 2 I. Eng. Language, 3 VII. Eng. Language V. Economics [1] Logic, 2 [1] VI. Philosophy [2] VIII. Philosophy Physiology	I.A Latin I. German, 1 VIII. Eng. Literature II. Economics [2] Psychology, 1 [1] V. Mathematics [2] VI. Mathematics Descriptive Geom. VI. Chemistry	I. Latin, 2 I. German, 2 I. French, 2 I. Eng. Language, 3 VII. Eng. Language V. Economics [1] Logic, 2 [2] Psychology, 2 [1] VI. Philosophy [2] VIII. Philosophy Physiology	I. German, 1 IX. Eng. Literature I. Eng. Language, 4 [1] Logic, 1 [2] Psychology, 3 [1] V. Mathematics [2] VI. Mathematics Descriptive Geom. VI. Chemistry	I. Latin, 2 I. German, 2 I. French, 2 Pub. Speaking (Sen.) IX. Physics II. A Chemistry
12.	I. Latin, 3 II. German, 2 I. Eng. Literature V. History XIII. Mathematics [1] V. Physics [2] VI. Physics [1] III. Geology [2] IV. Geology	[1] IV. Latin [2] V. Latin III. German VIII. Eng. Language XI. Economics English Bible IX. Physics VIII. Chemistry	I. Latin, 3 II. German, 2 I. Eng. Literature, 1 VI. Eng. Language V. History English Bible VI. Economics XIII. Mathematics [1] V. Physics [2] VI. Physics [2] X. Chemistry [1] III. Geology [2] IV. Geology	[1] IV. Latin [2] V. Latin III. German VIII. Eng. Language XI. Economics English Bible IX. Physics VIII. Chemistry	I. Latin, 3 II. German, 2 I. Eng. Literature, 1 VI. Eng. Language V. History VI Economics XIII. Mathematics [1] V. Physics [2] VI. Physics [2] X. Chemistry [1] III. Geology [2] IV. Geology	
2.	[1] V. German [2] VII. German V. Philosophy II. B, III., V., VII. Chemistry [1] II. Biology [2] III. Biology	Spanish [2] Phys. Geography, 1 II., VIII., XI., XII. Physics	[1] V. German [2] VII. German II., VIII., XI., XII. Physics	Spanish [2] Phys. Geography, 1 II., VIII., XI., XII. Physics	[1] V. German [2] VII. German II.B, III., V. Chemistry [1] II. Biology [2] III. Biology	
3.	IV. Eng. Language V. Philosophy II. B, III., V., VII. Chemistry [1] II. Biology [2] III. Biology	I. Eng. Literature, 2 VI. Ethics II., VIII., XI., XII. Physics [2] Phys. Geography, 2	II., VIII., XI., XII. Physics Hygiene	VI. French I. Eng. Literature, 2 II., VIII., XI., XII. Physics [2] Phys. Geography, 2	II.B, III., V. Chemistry [1] II. Biology [2] III. Biology	

EXAMINATION GROUPS.

No student is allowed to take more than one course in any of these groups, with the exception of those (bracketed together) which are not given in the same half-year. The following courses are not assigned to any group, and may be elected without limitation: V., VII. German; Spanish; Public Speaking; VI. History; VIII. Economics; XI. Philosophy; II., VIII., XI., XII. Physics; II.B, III., V., VII., XV. Chemistry; VIII., IX., X., XI. Biology.

I.—*M.*, *W.*, *F.*, *at 8.*

{ V. Greek.
{ VI. Greek.

[1]Dante in English, *F.*
Italian, *M.*, *W.*
I. History.
Political Science.
II. Philosophy.
VII. Mathematics.

II.—*M.*, *W.*, *F.*, *at 9.*

II. Greek, *W.*, *F.*

{ IX. German, *W.*, *F.*
{ XI. German.

II. Eng. Literature.

{ I. Mathematics.
{ III. Mathematics.

X. Mathematics.
II. Geology.
Zoölogy.

III.—*M.*, *W.*, *F.*, *at 10.*

VII. Latin, *M.*, *F.*
A. Greek.
I. Greek.
[2]I. French.
[3]IV. French, *W.*, *F.*
V. French, *M.*
V. Eng. Literature, *M.*, *W.*
IV. History.

{ IX. Philosophy.
{ X. Philosophy.

Descriptive Geometry.
I. Physics.

IV.—*M.*, *W.*, *F.*, *at 11.*

I.A Latin, *W.*
VIII. Eng. Literature, *M.*, *W.*
[4]IX. Eng. Literature, *F.*
I. Eng. Language.
II. Economics, *M.*, *W.*
I. Philosophy, *M.*, *W.*

{ V. Mathematics.
{ VI. Mathematics.

VI. Chemistry.

1 May be elected with Italian.
2 May be elected with any one course in this group.
3 May be elected with V. French.
4 May be elected with VIII. English Literature.

V.—*M.*, *W.*, *F.*, *at 12.*

I. Latin.
I. Eng. Literature.
VI. Eng. Language, *W.*, *F.*
V. History.
VI. Economics, *W.*, *F.*
XIII. Mathematics.
{ V. Physics.
{ VI. Physics.
X. Chemistry, *W.*, *F.*
{ III. Geology.
{ IV. Geology.

VI.—*M.*, *W.*, *F.*, *at 3.*

IV. Eng. Language, *M.*
V. Philosophy, *M.*
[1]Hygiene, *W.*
{ General Biology, *M.*, *F.*
{ Botany, *M.*, *F.*

VII.—*T.*, *Th.*, *S.*, *at 8.*

B. Greek, *Th.*
[2]II. German.
[2]II. French.
VIII. History.
IV. Mathematics, *T.*, *Th.*
I.A Physics, *Th.*
Evolution, *T.*, *Th.*

VIII.—*T.*, *Th.*, *S.*, *at 9.*

{ III. Greek, *T.*, *Th.*
{ IX. Greek, *T.*, *Th.*
IV. German.
I. Economics, *T.*, *Th.*
X. Economics, *T.*, *Th.*
{ Ethics.
{ Philosophy of Religion.
II. Mathematics.

IX.—*T.*, *Th.*, *S.*, *at 10.*

XI. Greek.
III. French, *T.*
VII. History.
VII. Economics, *T.*, *Th.*
III. Philosophy, *T.*, *Th.*
Science and Religion, *T.*, *Th.*
{ XIV. Mathematics.
{ XV. Mathematics.
VII. Physics.
I. Chemistry.

X.—*T.*, *Th.*, *S.*, *at 11.*

[2]I. German.
VII. Eng. Language, *T.*, *Th.*
V. Economics, *T.*, *Th.*
{ VI. Philosophy, *T.*, *Th.*
{ VIII. Philosophy, *T.*, *Th.*
II.A Chemistry, *S.*
Physiology, *T.*, *Th.*

XI.—*T.*, *Th.*, *at 12.*

{ IV. Latin.
{ V. Latin.
III. German.
VIII. Eng. Language.
XI. Economics.
English Bible.
IX. Physics, *T.*, *Th.*
VIII. Chemistry.

XII.—*T.*, *Th.*, *at 3.*

VI. French, *Th.*
VI. Ethics, *T.*
Physical Geography.

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1 May be elected with General Biology and Botany.
2 May be elected with any one course in this group.

SELECTION OF STUDIES.

FRESHMAN YEAR.

I. FOR CANDIDATES FOR THE B. A. DEGREE.

Each student must elect not less than *fifteen* nor more than *eighteen* hours per week from the following courses, including I. English Language and Hygiene, which are required of all. The choice must include one three-hour course in Latin or Greek, and one three-hour course from the following: Latin, Greek, mathematics, a modern language.

	Hours per week.
I. English Language,	3
I. Latin,	3
I.A Latin,	1
I. Greek,	3
I.A Greek,	1
I. Mathematics,	1½
II. Mathematics,	1½
III. Mathematics,	1½
I. French or I. German,	3
II. French or II. German,	3
I. History,	3
I. Physics,	2 or 3
I. Chemistry,	1½ or 3
Physical Geography,	1
General Biology,	1
Botany,	1
Hygiene,	1

II. FOR CANDIDATES FOR THE B. S. DEGREE.

Each student must elect not less than *fifteen* nor more than *eighteen* hours per week from the following courses, including I. English Language and Hygiene, which are required of all:

	Hours per week.
I. English Language,	3
I. Mathematics,	1½
II. Mathematics,	1½
III. Mathematics,	1½
I. French or I. German,	3
II. French or II. German,	3
I. History,	3
I. Physics,	2 or 3
I. Chemistry,	1½ or 3
Physical Geography,	1
General Biology,	1
Botany,	1
Hygiene,	1

Of the following courses, such as are not presented for admission must be passed in college:

II. Mathematics (trigonometry), and either I. Mathematics (solid geometry) or III. Mathematics (analytic geometry). Advanced algebra may be presented on admission to college in lieu of either solid geometry or analytic geometry.

I. French and II. French.

I. German and II. German.

SOPHOMORE, JUNIOR, AND SENIOR YEARS.

A student must elect in Sophomore and Junior years not less than *fifteen* nor more than *eighteen* hours per week of study, in Senior year not less than *thirteen* nor more than *eighteen* hours per week of study. In the Sophomore year rhetorical exercises are required, which are rated as the equivalent of one hour per week, to be included in the prescribed quota. The requirement for graduation is *sixty* hours of work, inclusive of rhetorical exercises. After the Freshman year there are no required studies, except Sophomore rhetorical exercises; but the election of studies must conform to the following requirements:

A. GROUP SYSTEM.

The departments of study are arranged in the following groups:

Group I.	Group II.	Group III.
Latin,	History,	Mathematics and Astronomy,
Greek,	Economics and Social Science,	Physics,
German,	Philosophy,	Chemistry,
Romance Languages,	Ethics and Religion.	Geology,
English.		Biology.

A student's courses, including those of the Freshman year, must include at least *twelve* hours from Group I. and at least *nine* hours from each of Groups II. and III. The following courses offered in college, but taken in preparatory school and presented for admission, may be counted in making up this requirement: Intermediate French (II. French), Intermediate German (II. German), Advanced Mathematics (I. and II. Mathematics).

B. MAJOR STUDIES.

At the beginning of the Junior year, each student must elect a major study, the requirement for which is not less than *nine* nor more than *twelve* hours' work per week for a year in a department, the studies constituting the major to be elected with the approval of the senior instructor in the department in which the major is elected. The major may consist wholly of studies in one department, or partly of studies in cognate departments, so chosen as to make a consistent program. The following courses are not allowed to count in making up a major:

I. English Language, the rhetorical exercises of the Sophomore year, I. French, I. German, I. Chemistry (first-half), Botany, Physical Geography.

DEPARTMENTAL AND OTHER LECTURES, 1911-1912.

In addition to the Courses of Instruction named above, lectures are given each year under the auspices of various departments or associations connected with the University. Most of these lectures are open to the public. In 1911–12 were given the following:

DEPARTMENTAL LECTURES.

DEPARTMENT OF PHILOSOPHY.—Professor Max Verworn, University of Bonn. Subject: "Sleep."

Professor George Stephen Painter, Clark University. Subject: "Philosophy and Life."

MIDDLETOWN SCIENTIFIC ASSOCIATION.

The Middletown Scientific Association, founded in 1871, has a membership of about ninety, taken partly from the college and partly from the town. Regular meetings are held on the second Tuesday of every month during the college year, in the lecture-room of the John Bell Scott Memorial. During 1911–12 the following addresses were given:

Professor Raymond Dodge. Subject: "New Methods of Studying the Contraction of the Human Heart."

Mr. Herbert Keightly Job, State Ornithologist of Connecticut. Subject: "The Restoration of Bird Life."

Professor Arthur Woolsey Ewell, Worcester Polytechnic Institute. Subject: "The Earth's Atmosphere."

Professor Walter Guyton Cady. Subject: "Atoms of Electricity."

Dr. Willis Rhodney Whitney, General Electric Company, Schenectady, New York. Subject: "Research Laboratory Notes."

Professor William Arthur Heidel. Subject: "The Beginnings of Science."

Professor Leroy Albert Howland. Subject: "Safeguards of Ocean Travel."

Professor David Day Whitney. Subject: "The Significance and Value of Sex."

Mr. Elijah Kent Hubbard, Jr., of Middletown. Subject: "Cotton and Some of Its Uses."

Mr. Waterman S. C. Russell, of Springfield, Mass. Subject: "Horseback Tours in Iceland."

THE CLASSICAL CLUB.

The Classical Club was founded in 1906 by about twenty of the students taking classical courses. Meetings are held once a month during the college year. The following lectures were given before the club in 1911–12:

Professor Karl Pomeroy Harrington. Subject: "Mantuan."

Professor Frank Walter Nicolson. Subject: "A Visit to Baiae."

Professor Joseph William Hewitt. Subject: "Research Work in the Graduate School."

Professor William Arthur Heidel. Subject: "Recent Additions to Greek Literature from the Discovery of Papyri."

LA SOCIÉTÉ FRANÇAISE.

A French club was founded in 1907 by a number of students taking courses in the department of romance languages. In the fall of 1909, the club was reorganized under the title of La Société Française, holding fortnightly meetings at the fraternity houses. The following addresses were given in 1911–12:

Professor Oscar Kuhns. Subject: "Maeterlinck et L'Oiseau Bleu."

Mr. Albert Mann, Jr. Subject: "Le Théâtre Français pendant son Enfance."

Professor Oscar Kuhns. Subject: "Mes Expériences Universitaires en Allemagne, en France, et en Italie."

M. Jacques Charbonnier, Yale University. Subject: "Genève."

DER DEUTSCHE VEREIN.

A club was organized October 23, 1909, by undergraduates for further practice in the German language and the study of German culture. Those undergraduates are eligible for active membership (limited to twenty-five upper classmen and five Freshmen) who are taking or have taken courses in German more advanced than Course II. Members of the Faculty and graduate students may be elected to honorary membership. Meetings are held semi-monthly in rooms in East Hall, where the Verein maintains a German reading-room. Programs, arranged with the advice of the teaching staff in the department, include addresses by instructors in German in other institutions, papers by members, plays, etc. The following addresses were given in 1911–12:

Mr. Howard Wadsworth Church, University of Berlin. Subject: "Ein Amerikaner in Berlin."

Dr. Axel Ebenezer Vestling, Yale University. Subject: "Eine Harzreise."

Dr. William Hoyt Worrell, Hartford Theological Seminary. Subject: "Einige Reisen in Deutschland."

Pastor Ernest Friedrich Hingkeldey, Middletown. Subject: "Weihnachtsitten in Deutschland."

Mr. Emil Schmidt, Hartford. Subject: "Erinnerungen an Weimar."

Professor Hollon Augustine Farr, Yale University. Subject: "Ferienausflüge der deutschen Studenten."

Pastor Lothar Brunke, Waterbury. Subject: "Aus meiner Studienzeit."

Professor Otto Manthey-Zorn, Amherst College. Subject: "Die Reichstagwahlen von 1912."

Professor Robert Herndon Fife, Jr. Subject: "Deutsche Universitätstädte."

Professor Rudolf Tombo, Jr., Columbia University. Subject: "Deutsche und americanische Universitäten. Ein Vergleich."

Mr. Isaac Bauer, Middletown. Subject: "Handel und Industrie in Deutschland."

Dr. Paul Curts. Subject: "Deutscher Witz."

GENERAL REGULATIONS.†

REGISTRATION.

Every student of the Junior, Sophomore, and Freshman classes is required to present to the Secretary of the Faculty, on or before the second Wednesday before Commencement, a list of the studies which he proposes to take the next college year. A fee of one dollar shall be paid by each student who fails to present such a list on or before that date. Every student is required to register at the beginning of the first term of each year, at which time changes may be made in the list of studies selected in June. At the same time, members of the Junior class are required to present the list of courses approved by the respective instructors for major studies. A fee of two dollars shall be paid by each student who does not register at the time appointed.

QUOTA OF STUDIES.

The requirement for graduation is sixty hours of work. Freshmen, Sophomores, and Juniors must take not less than fifteen nor more than eighteen hours of work per week, and Seniors not less than thirteen nor more than eighteen hours per week. No student will be allowed to take less than the minimum nor more than the maximum above specified, without special permission of the Administration Committee. A fee of five dollars per hour for the year is charged for all courses taken in excess of eighteen hours per week.

GRADES.

The general character of the work of each student in each study is indicated by his assignment to one of six grades, grade 1 denoting the highest excellence, and grades 5 and 6, failure to pass. A student in the fifth grade may be allowed another examination in the study, as prescribed in paragraphs 27–29 of the Regulations. A student in the sixth grade cannot be examined again in the study, unless he take it a second

† Copies of the detailed Regulations may be obtained from the Secretary of the Faculty.

time in the class. A student will not be graduated unless he attain a grade higher than fourth in sixty per cent of his work.* The Secretary of the Faculty sends to each student, within three weeks after Commencement, a report of his grades in all the studies which he has taken during the year.

EXAMINATIONS.

Regular examinations are held at the end of the year, and during a specified period at the mid-year. The allowance of absence from recitations is, in courses running through the year, twice the number of required exercises a week; in courses running through a half-year the allowance is proportionately diminished. A student who has taken the allowed number of absences in any course, exclusive of those excused by the President or by the Committee on Athletic and Musical Organizations, must thereafter present an excuse for every absence taken in that course, and in case he have one unexcused absence or deficiency in addition to the number allowed, he is excluded from examination and must take a special examination later, paying a fee of five dollars. In the application of this rule, absences from the first or the last exercise of a term in any study, or consecutive absences including the first or the last exercise, are each reckoned as two absences. Absences of the same nature before or after the Thanksgiving recess are each reckoned as two absences.

Special written examinations are held during the week commencing with the Tuesday before the beginning of the first term for all who have been absent from any of the examinations of the previous year, or who have received grade five in the same, except those who have been examined and failed to pass at both the regular examination in January and the special examination in the third term.

For the benefit of students deficient in second half-year subjects, special written examinations are held during the first few days after the Christmas recess, at times announced by the Secretary of the Faculty. For these examinations application must be made before the close of the first term. A fee of five dollars is charged for each examination.

* This rule does not apply to the work of the classes of 1913 and 1914 prior to the beginning of the year 1911-12.

For the benefit of students who have been absent from any of the examinations during the preceding part of the year, or who have received grade five in the same, special written examinations are held during the first few days after the Easter recess, provided that application for such examination is made by the candidate before the close of the second term.

A student who fails to pass a final examination in any study before that study is taken up by the next succeeding class is required, unless specially excused therefrom, to recite with that class, or, in the case of an elective study, to substitute some other elective therefor. If, at the close of the special examinations held at the beginning of the year, a student is deficient by an amount equivalent to six or more hours of work a week for a year, he is ranked with the next lower class, unless specially excused therefrom by the Committee of the Faculty on Administration.

ENTRANCE CONDITIONS.

A student who fails to make up entrance conditions on or before the first day of November of the next college year is excluded from all recitations until the conditions are made up. A fee of five dollars is charged for an examination in entrance conditions after the regular examination for admission at the beginning of the student's second year in college.

PUBLIC WORSHIP.

Devotional services, at which the attendance of students is required, are held in Memorial Chapel every week-day morning, and on Sunday afternoons.

Voluntary religious services under the direction of the Young Men's Christian Association are held weekly.

LEAVE OF ABSENCE.

A student who desires excuse from college exercises on account of absence from town must apply to the President for permission to be absent, and, unless the circumstances of the case render it impracticable, such permission must be obtained before the student's departure.

STUDENT ORGANIZATIONS.

No member of the Senior or Junior class who is deficient in his college work more than two hours a week for a year, and no member of the Sophomore class who is deficient more than three hours a week for a year, is allowed to take part, as a member of a university athletic team, in any athletic contest, except by special permission; and any student whose college work becomes unsatisfactory at any time during the year may be debarred from taking part in such a contest.

Members of the college musical and dramatic organizations, who are deficient as specified in the preceding paragraph, are not allowed to appear in public performances given by those organizations.

No student on probation or under censure is allowed to serve, without permission of the Faculty, in any capacity on an athletic organization or on a musical or dramatic association giving public performances.

No Freshman is allowed to represent the college on any athletic, musical, or dramatic organization during the first half of the Freshman year.

No student is allowed, without special permission of the Committee on Administration, to represent the college in any one year on more than two of the following organizations: football, baseball, basketball, track athletics, tennis, glee club, dramatics; nor on any two of them that are in active operation at the same time.

The approval of the schedules of public performances given by the musical and dramatic organizations is in the hands of committees of the Faculty.

THE ATHLETIC COUNCIL.

In 1903 the Trustees authorized the organization of an Athletic Council, composed of three representatives each of the Faculty, the alumni, and the undergraduates. The Council has general supervision over the athletic affairs of the college, subject to certain veto powers retained by the Faculty. It administers eligibility rules, except as regards scholarship, approves schedules, ratifies the election of captains and managers, and controls the finances of the several departments of athletics,

through a financial secretary. The officers of the council for 1912–13 are: Seward V. Coffin, '89, President; Robert I. Laggren, '13, Vice-President; Professor Edgar Fauver, Secretary; Professor L. A. Howland, Financial Secretary.

EXPENSES.

The annual charges in the Assistant Treasurer's bill are as follows:—

Tuition, - - - - - - - - - - -	$90 00
Incidentals, use of library and reading-rooms, etc.,	50 00
Total, - - - - - - - - - -	$140 00

A fee of two dollars is charged for I. Chemistry, and a fee of one dollar for General Biology and for Botany. For the laboratory courses in physics, chemistry, and biology, fees are charged which vary with the nature of the course and with the number of exercises elected per week. The fee for each exercise per week in practical physics, in practical biology, and in II. and XIII. Chemistry, is five dollars; in III., V., VII., and XI. Chemistry, eight dollars. Students electing the chemistry courses named are required in addition to make a deposit of five dollars, which is refunded at the close of the course after charges for breakage have been deducted.

A diploma fee of five dollars is charged to each student at graduation.

A fee of five dollars is required of every candidate for the Master's degree before his course of study can be approved by the Committee on Graduate Instruction.

A diploma fee of ten dollars is charged to each graduate student upon promotion to the Master's degree.

The college bills are payable soon after the beginning of each semester. Unless the bill for any semester is paid, or payment thereof guaranteed, on the day appointed, the student is liable to exclusion from recitations.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or payment thereof guaranteed.

A student who is absent from college on account of sickness, or for other cause, and who retains his place in his class, must pay the full college bills during his absence.

Board may be obtained in private families at prices varying from $3.75 to $5.00 a week. The college fraternities maintain clubs which supply board to their members at prices ranging from $3.50 to $5.00 a week. The price of board at the college dining hall is $3.00 a week.

Other expenses incident to college life vary with the habits and circumstances of the student. They are not, of necessity, so great as to be burdensome to persons in moderate circumstances. Instances have been extremely rare in which students of good ability and health have been compelled to leave college for want of money.

DORMITORY ACCOMMODATIONS.

The new North College, at the end of College Row, contains one hundred and one rooms that are available for students. The rooms are lighted by electricity, heated by steam, and provided with single beds, mattresses, chiffoniers, and desks. The prices indicated below include the care of the room. An extra charge for electric light is also made, the charge depending upon the electric power furnished. A diagram showing the location of rooms, with dimensions, also a price-list giving number of occupants allowed in each room, will be sent upon application to the Secretary of the Faculty.

Rooms are rented also in Observatory Hall and in East Hall, at a lower rate than is the case in North College. The rooms in East Hall are not furnished. Most of the rooms in both buildings are lighted with either gas or electricity, for which an additional charge is made.

Each student renting a room must make a deposit of ten dollars ($10) at the time the assignment is made, and must sign a contract binding him to pay the rent of the room and to occupy the room in person through the entire college year. This deposit will be forfeited in case the student fails to return to college or in case he does not enter; otherwise the deposit will be credited on his bill for room-rent.

Students are permitted to take lodgings in town, but the places in which they room or board are in all cases subject to the approval of the Faculty. If any of the rooms in the

college are thus left vacant, the rent of such rooms may be charged to holders of free scholarships who room in town.

Application for rooms should be made to the Secretary of the Faculty.

PRICES OF COLLEGE ROOMS.

North College (Furnished Rooms).

No.	Rent.	Heat.	No.	Rent.	Heat.	No.	Rent.	Heat.
1 } 2 }	$110	$24	35	$60*	$16	69	$60*	$20
			36	80	20	70 }		
3	80	20	37 } 38 }	110	24	71 } 72 }	125†	30
4	50	16						
5 } 6 }	100	24	39 } 40 }	110	24	73	50	16
						74	50	16
7	60*	20	41	50	16	75 } 76 }	110	24
8	50	16	42	50	16			
9	80	20	43 } 44 } 45 }	125†	30	77 } 78 }	110	24
10 } 11 } 12 }	125†	30						
						79	80	20
			46	60*	20	80	60*	20
13 } 14 }	110	24	47 } 48 } 49 }	125†	30	81 } 82 }	100	24
						83 } 84 }	100	24
15	50	16						
16	50	16	50	50	16	85	60*	20
17 } 18 } 19 }	125†	30	51	50	16	86	80	20
			52 } 53 }	110	24	87 } 88 }	110	24
20 } 21 } 22 }	125†	30	54 } 55 }	110	24			
						89 } 90 }	110	24
			56	60*	16			
23	50	16	57 } 58 }	100	24	91	50	16
24	50	16				92	50	16
25 } 26 }	110	24	59	80	20	93 } 94 }	100	24
			60 } 61 }	110	24			
27 } 28 }	110	24				95	50	20
			62 } 63 }	110	24	96 } 97 }	100	24
29	80	20						
30	60*	16	64	50	16	98	50	16
31 } 32 }	100	24	65	50	16	99	50	16
			66 } 67 } 68 }	125†	30	100 } 101 }	110	24
33 } 34 }	100	24						

* Rent $75, if occupied by two persons.

† Rent $150, if occupied by three persons.

Observatory Hall (Furnished Rooms).

No.	Rent.	Heat.	Remarks.
1	$55	$12	Rent $60, if occupied by 2 persons.
2 } 4 }	90	20	" 100, " " 3 "
3	45	12	
6	50	12	" 55, " " 2 "
7	50	12	" 55, " " 2 "
9	50	15	" 55, " " 2 "
10	50	12	" 55, " " 2 "
11	80	15	" 90, " " 2 "
12	90	20	" 100, " " 3 "
13	90	16	" 100, " " 3 "
14	90	18	" 100, " " 3 "
15	50	15	" 55, " " 2 "
16	55	15	" 60, " " 2 "
17	50	15	" 55, " " 2 "
18	45	12	
19	100	18	" 110, " " 3 "
20	100	18	" 110, " " 3 "

East Hall (Unfurnished Rooms).

No.	Rent.	Heat.	No.	Rent.	Heat.	No.	Rent.	Heat.
1	$85	$16	10	$75	$16	16	$40	$12
2	85	16	11	75	16	17	45	12
5 } 6 }	60	15	12	75	16	18	50*	15
			13	45	12	19	45	12
8	45	12	14	50	16	20	45	12
9	75	16	15	50*	15	21	35	12

* Rent, $65 for three persons.

COLLEGE DINING HALL.

In order to reduce the expense of a college course, the college maintains a dining hall, where board may be obtained at a low rate. There is accommodation for about one hundred boarders. The college is responsible for the general management, the details being in charge of a matron who is responsible to a college officer. Bills are paid into the college treasury, and the college assumes all financial responsibility. The rate of board is at present three dollars a week.

MATERIAL EQUIPMENT.

NEW BUILDINGS.

WILLBUR FISK HALL, opened in the summer of 1904, is occupied by the departments of language, literature, history, economics, and philosophy. It is of Portland brownstone and practically fireproof, 113 by 62 feet in dimensions, three stories in height above a lofty and well-lighted basement story, and cost one hundred and fourteen thousand dollars. It contains ten private studies for professors in charge of departments, fourteen lecture-rooms, seven commodious seminary rooms, and a well-appointed psychological laboratory.

In the planning and construction of the building careful attention was paid to matters of heating, lighting, ventilation, and drainage. It is believed that in dignity of external appearance, interior finish, convenience of arrangement, and adaptation at all points to the uses for which it is designed, it is a model college building.

THE JOHN BELL SCOTT MEMORIAL, a new Physical Laboratory, was completed in 1904 at a cost of one hundred and eighteen thousand dollars. It is the gift of the late Charles Scott and of his son, Charles Scott, of the class of 1886, in memory of John Bell Scott, of the class of 1881, who died of disease contracted while serving as Chaplain of the U. S. Cruiser *St. Paul* during the Spanish-American war.

It is a beautiful and imposing building constructed of Harvard brick and Indiana limestone. Its main part has a frontage of 102 feet and a depth of 51 feet, and in the rear is an extension 50 by 30 feet. The building consists of basement, three stories, and attic, except that the third story is omitted in the extension. The main lecture-room contains nearly two hundred seats, and there is a smaller lecture-room capable of seating about forty persons, which is at present fitted up for

the use of the class in descriptive geometry. The building contains twenty-two rooms for experimental work, elementary and advanced, in addition to lecture and apparatus rooms, photographic dark-rooms, storerooms, offices, a library, and a room for draughting and computing. There is also a tower 4 by 6 feet in cross section, with a height of 54 feet in the clear, which can be used for experiments requiring great vertical extension.

The building is equipped with an exceptionally extensive and complete system of wiring for the purpose of distributing to all points, for experimental use, electric currents from the city mains as well as from the storage battery and generators in the basement. For the most part the interior is finished with exposed brick walls, painted a light tint, and with exposed floor timbers and pipe work.

THE NEW NORTH COLLEGE was occupied as a dormitory in January, 1908. It is of Portland brownstone, practically fireproof, 152 by 48½ feet in dimensions, four stories in height above a basement, and cost about $135,000. The building contains one hundred and one rooms, arranged to satisfy varying demands. There are lavatories in the basement and on the third floor, supplied with tub and shower baths. The floor construction is of reinforced concrete throughout, and the stairs of iron and slate. The building is heated by steam from the central heating plant, and all rooms are lighted by electricity. All partitions in the basement, corridors, and stair-wells are of hollow terracotta brick.

SOUTH COLLEGE, which formerly was used for recitation rooms and studies, has been remodeled to serve as an administration building. The entrance to the building has been raised and a new flight of steps constructed as an approach. The old wooden staircases have been replaced by new ones of iron, with slate treads. The first floor is used as a storeroom by the library. The second and third floors contain private offices for the President and the Secretary of the Faculty, a stenographer's room and a storeroom, and a spacious room, finished in quartered oak, used for Faculty meetings and as a general office. On the fourth floor are a number of two-room suites for dormitory use.

LIBRARY AND READING-ROOMS.

THE LIBRARY in Rich Hall contains about ninety-one thousand volumes. The library is open every week-day of the college year from 8 A. M. to 10 P. M. Students are allowed direct access to the shelves. Copies of the library rules may be obtained from the Librarian.

The increase of the Library is provided for from the income of the following funds, amounting to $100,269:—

THE ALUMNI LIBRARY FUND, $37,219, the aggregate of numerous gifts from alumni and friends of the University.

THE HUNT LIBRARY FUND, $31,703, established by Rev. Albert Sanford Hunt (B. A., 1851, D. D., 1873), of Brooklyn, N. Y.

THE WILCOX LIBRARY FUND, $21,135, established by Mrs. Harriet H. Wilcox, of Brooklyn, N. Y.

THE WISE LIBRARY FUND, $5,032, for the purchase of scientific books, established by Rev. Daniel Wise, D. D., of Englewood, N. J.

THE MEAD LIBRARY FUND, $5,029, established by Miss Elizabeth J. Mead, of Stamford, Conn.

THE GONA LIBRARY FUND, $151, established by a friend of the department of chemistry for the purchase of books for that department.

On the first floor of Memorial Chapel is a reading-room, provided with daily and weekly newspapers. Another reading-room, on the second floor of Rich Hall, contains the current issues of the most important magazines and reviews, literary and scientific, American and foreign.

ASTRONOMICAL OBSERVATORY.

THE OBSERVATORY is used for purposes of instruction, and is well equipped therefor. Students in astronomy have frequent opportunities to examine the most interesting celestial objects through the telescope; and members of the class in practical astronomy are instructed in the theory and use of all the instruments in the observatory.

The principal instruments are an equatorial of twelve inches aperture, by Alvan Clark & Sons, provided with a filar micrometer, a polarizing photometer, and spectroscopes, solar and stellar, two of which have very high dispersive power; a transit instrument of three inches aperture, with collimators of the same aperture, and adapted to use as a zenith telescope; a prime vertical instrument of the same size; sextants; two astronomical clocks; a chronometer; and a chronograph.

A gift was received in 1903 from the late Joseph Van Vleck of Montclair, New Jersey, to be used toward the erection and equipment of a new astronomical observatory. This gift, with its accumulations, exclusive of money spent in the purchase of a site for the building, now amounts to about $54,500.

LABORATORIES AND APPARATUS.

THE LABORATORY OF EXPERIMENTAL PSYCHOLOGY occupies four rooms in Fisk Hall: a general laboratory and lecture-room, a smaller research laboratory, a construction and apparatus room, and a physiological dark-room. These rooms were designed expressly for their present use and contain electrical and other fittings of the most approved sort. The equipment of the laboratory is being increased to meet the demands of research as well as for more adequate class-room demonstration and elementary laboratory exercises. Among the more recent acquisitions may be mentioned: a set of preparations of the brain and spinal cord, a pendulum-tachistoscope, a projection apparatus designed for experimental purposes as well as for the projection of lantern slides, a mirror exposure apparatus of new design for studies in the psychology of reading, a microscope sphygmograph and registering device, and an Einthoven spring-galvanometer. The latter combine to give the benefit of a complete "heart-station."

THE PHYSICAL LABORATORY occupies the John Bell Scott Memorial, for a description of which see page 115. It is equipped with apparatus for the performance of the experiments usually undertaken in undergraduate courses, and offers also opportunity, in certain lines, for advanced work on the part of graduate students. In electricity, particularly, facilities

are afforded for instruction in the use of the most important electrical instruments and machines, and for extended tests and investigations, especially in the line of alternating currents, electric oscillations, and discharge through gases.

In addition to the electrical equipment of the Scott Laboratory the dynamo-room in the boiler house contains a 25-horse-power Ball engine, and a 17½-kilowatt direct-current dynamo.

THE CRAWFORD MEMORIAL FUND. A fund of five thousand dollars has been given by Hanford Crawford, of St. Louis, in memory of the Reverend Morris D'Camp Crawford, who was a trustee of Wesleyan University from 1871 to 1896. The proceeds of this fund are to be devoted to the purchase of apparatus for the department of physics, or to the promotion of research in the same department.

THE CHEMICAL LABORATORY finds accommodation on the lower floors of Judd Hall. Two lecture and recitation rooms provide facilities for class instruction. The larger of the two is capable of seating one hundred and ten persons.

The laboratory courses are likewise accommodated in two rooms, one of which is reserved exclusively for the use of students in quantitative analysis. In the other, which is the general laboratory room, there are desks for more than fifty students.

The very valuable library of chemical periodicals collected by the late Professor Atwater is housed in the chemical laboratory and is accessible to instructors and students alike.

THE CRYOGENIC LABORATORY furnishes facilities for demonstration and for research at low temperatures. Its main equipment consists of a liquid-air plant, including an electric motor, a Norwalk compressor which delivers about twenty cubic feet of air per minute at a pressure of 3,000 pounds, and a liquefier. The capacity of the liquefier is about five liters of liquid-air per hour.

THE BIOLOGICAL LABORATORY occupies six rooms in Judd Hall, and is capable of accommodating about thirty students. Five rooms are used for general laboratory purposes, of which two are devoted to miscellaneous laboratory work, one

to general laboratory work of large classes, one to coarse dissection, and one to bacteriological work. The laboratory is equipped with all the apparatus necessary for elementary biological work, and is provided with an abundance of material for anatomical and histological study. The general laboratory room contains a type collection illustrating all orders of animals, and students are allowed to use the large museum collection for comparison and direct study. The laboratory is especially well equipped for bacteriological work. Advanced students of the department have also the advantage of the use of the State Bacteriological Laboratory, located in the John Bell Scott Memorial.

THE MACHINE SHOP occupies the west room in the boiler house, and is in charge of a skilled mechanician. It is equipped with first-class power lathes, planer, shaper, etc., and affords ample facilities for the construction of new apparatus, for purposes both of demonstration and of investigation; for the repair of apparatus already in use; and, to a limited extent, for the instruction of advanced students who have exceptional mechanical aptitude.

MATHEMATICAL MODELS. This collection, the gift of Ebenezer Hill (B. A., 1870), of South Norwalk, Conn., comprises a complete set of the models made by Brill of Darmstadt, for illustration in the higher branches of mathematics, as well as in mathematical physics and crystallography. The models are arranged in a series of cases in the mathematical reading-room in Observatory Hall.

GYMNASIUM AND ATHLETIC FIELD.

THE FAYERWEATHER GYMNASIUM is located on the north side of the rear campus, parallel with Wyllys Street. Its dimensions are 55 by 120 feet.

The basement contains a baseball cage, a large room for shower baths, a room adjacent for rubbing and drying, a large locker room, and toilet rooms. On the first floor is the main hall of the gymnasium, which is well equipped and affords ample room for every variety of gymnastic exercise. The

director's office and a room for visiting teams are also on the first floor. The running track is suspended from the roof, above the main floor. On the second floor is a trophy room, used also as a committee room by the various athletic organizations. Special attention has been paid to ventilation, drainage, and lighting, and the building is believed to contain the best features of a modern gymnasium.

Plans are being drawn for the construction of a swimming-pool, the gift of a friend of the college, which will be built in the form of an extension on the eastern end of the gymnasium.

Exercise in the gymnasium is required of the Freshman and Sophomore classes, three hours a week, from Thanksgiving to the end of the winter term. Elective work in the gymnasium is offered to the Junior and Senior classes.

THE ANDRUS FIELD lies in the rear of the main line of college buildings, just south of the gymnasium. A quarter-mile cinder track, with a "straight-away" of 100 yards, encircles one portion of the field, within which ample room is afforded for baseball and field and track athletics. Football is played in another part of the field which has recently been improved for the purpose. An outdoor board track has been built by one of the college fraternities in memory of Jesse Lyman Hurlbut, Jr., class of 1900. It is about thirteen laps to the mile, and is banked at the corners. The entire field, covering seven acres, provides sufficient space for class and 'varsity teams to practise at the same time. Its proximity to the college enables the whole student body to keep in touch with the training in all branches of athletics, and affords the teams an opportunity to use the dressing-rooms and baths reserved for them in the gymnasium.

At the southern end of the field is a covered grand stand, capable of seating four hundred persons.

MUSEUM.

THE MUSEUM OF NATURAL HISTORY AND ETHNOGRAPHY occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to their educational use, and are freely accessible to students.

The nucleus of the departments of zoölogy and botany was formed by the Shurtleff collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The zoölogical department received in the years between 1872 and 1881 most important accessions in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland also added large and valuable collections. Valuable collections of insects were presented by Richard L. de Zeng in 1896, and by Mrs. E. K. Hubbard in 1898. In 1908 a fine collection of birds' nests, and a collection of alcoholic reptiles and amphibians, from Portland and Cromwell, was received from Mr. Charles H. Neff. At the death of Mr. Neff in 1911, his entire collection came as a legacy to the museum. The collection is rich in skins, mounted specimens, and eggs of the birds of Portland and vicinity. The zoölogical department includes about thirteen thousand species. The vertebrata of North America, the marine invertebrata of New England, and the mollusca in general, are especially well represented.

The herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the university in 1879. The herbarium of Rev. Merrill Hitchcock, B. A., including about 700 specimens, of which about 200 are from Connecticut, was presented to the museum in 1908.

The mineralogical department includes about three hundred and fifty species, and a much larger number of varieties. The Franckfort collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated are well represented by collections commenced by the labors of Professor Johnston (1835–1868), and largely increased in later years. Important accessions were obtained in 1899 by collecting trips to Nova Scotia and to Herkimer County, N. Y.

The Sheldon collection, purchased in 1904, includes many beautiful and valuable specimens.

The geological department includes collections in lithology, physical geology, and paleontology. The lithological collection received in 1897 a valuable accession in the gift of a set of the educational series of rock specimens described in Bulletin No. 150 of the U. S. Geological Survey, presented by the Survey. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique. A valuable collection of tertiary fossils was received in 1887 from the Smithsonian Institution, in exchange for duplicate shells from the Shurtleff collection. The collections in paleontology have been very largely increased since 1893 by the work of the late curator, S. Ward Loper, M. A., in the vicinity of Middletown, at Valcour Island, Lake Champlain, in western Maryland, in the vicinity of Chattanooga, Tenn., Cañon City and Florissant, Col., and Fossil, Wyo., and in Nova Scotia. Especially important among these accessions are the collections of fossil fishes and plants from the triassic shales of the Connecticut valley, and of tertiary fishes and plants from Fossil, Wyo., and tertiary plants and insects from Florissant, Col. A choice collection of European fossils, including a number of beautiful specimens from the lithographic limestone of Solenhofen, was received in 1895 from the University Museum of Munich, in exchange for American fossils. The private collection of Mr. Loper, purchased for the museum in 1900, is very rich in fossil fishes and plants from the fossiliferous shales of the vicinity of Middletown.

The ethnographical department is especially rich in specimens illustrating the life of the aborigines of North America. Important contributions of pottery, casts of implements, models of dwellings, and other objects have been received from the Smithsonian Institution. A very valuable collection of objects from burial mounds near Chattanooga, Tenn., was deposited in the museum in 1896 by A. R. Crittenden, and has since then been purchased. The private collection of Mr. Loper, purchased in 1903, contains many interesting Indian relics from the vicinity of Middletown. The collection of

local Indian relics has been greatly increased by the legacy of Charles H. Neff in 1911. The department also possesses a valuable collection of pottery from the guano beds of Peru, presented by Joseph S. Spinney; a collection of Mexican antiquities, presented by Hon. Arnold Shanklin, United States Consul General in Mexico; an interesting collection of weapons and other objects from the South Sea Islands; a collection of relics from Assuan, Egypt, presented by Clarence S. Wadsworth, B. A.; and valuable collections of objects illustrative of Chinese life and customs, presented by Rev. Marcus L. Taft, D. D., Mrs. W. W. Wilcox, Rev. John Gowdy, D. D., and Rev. Joseph Beech, D. D. The collection of coins numbers about 4,500, exclusive of duplicates. Included in this number is a collection of about 1,800 Chinese coins, some of which are ancient and very rare, presented by Rev. Marcus L. Taft, D. D. Other valuable collections of Chinese coins have been received from Rev. John Gowdy, D. D., and Rev. Joseph Beech, D. D. A valuable collection of Greek and Roman coins and facsimiles of such coins, historical medals, and copies of such medals, was presented to the museum in 1906 by Stephen H. Olin, LL. D. Additional specimens subsequently presented by Dr. Olin make the number of specimens in this collection more than 600. The greater part of the ethnographical collection is at present arranged in the lower hall of the museum, with the collections in mineralogy and geology. The coins (with the exception of the Olin collection and certain other special collections placed on exhibition in the museum) are kept in a case in the classical seminary room in Fisk Hall, where they can be seen by students and others on special application.

The following is an approximate statement of the number of specimens in the various departments of the museum:—

DEPARTMENT OF ZOÖLOGY.

Mammals—skins mounted and unmounted,	225
alcoholic,	50
skulls and skeletons,	110
Birds—skins mounted and unmounted,	2,000
nests and eggs,	1,600
Reptiles,	600

Amphibians,	200
Fishes,	2,100
Insects—pinned and alcoholic,	6,500
nests, borings, etc.,	50
Crustacea,	1,500
Worms,	1,800
Mollusks—shells,	90,000
alcoholic,	4,000
Echinoderms,	1,000
Cœlentera,	1,700
Sponges and protozoa,	150

DEPARTMENT OF BOTANY.

Plants in herbarium,	11,400
Specimens of wood,	400
Miscellaneous botanical specimens,	1,100

DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks,	21,500
Fossils—Paleozoic,	11,500
Mesozoic,	3,700
Cenozoic,	3,000

DEPARTMENT OF ETHNOGRAPHY.

Miscellaneous ethnographic specimens,	4,400
Coins,	6,800

The museum is open to the public on Wednesday and Saturday afternoons.

SCHOLARSHIPS.

TUITION SCHOLARSHIPS.

Each year the Trustees place at the disposal of the President, for the benefit of needy and worthy students, a sum of money which is used to pay, in whole or in part, the charge for tuition.

The heirs of Mr. Ralph Mead have transferred to the University the perpetual scholarship issued in his name. This scholarship, which is at the disposal of the President, exempts the holder from the charge for tuition.

In addition to these free tuition scholarships are the following:—

THE SQUIRE SCHOLARSHIP.

This scholarship was founded by Hon. Watson C. Squire (B. A., 1859, LL.D., 1911), of Seattle, Wash. In accordance with its provisions, the income of $8,142 is awarded to that member of the Senior class who passes the best examination in Greek, provided that the successful candidate devote the ensuing year to classical study, in residence in the University, or in connection with travel or residence abroad, at his option, subject to the approval of the Committee on Graduate Instruction.

THE LOVELAND SCHOLARSHIP.

This scholarship was founded by Miss Louisa Loveland. The income of $2,678 is available, at the discretion of the Faculty, for the use of a deserving student who needs pecuniary assistance. For this scholarship only such students as intend to devote themselves to the work of the Christian ministry in the Methodist Episcopal Church can be candidates.

THE JOHN EVANS SCHOLARSHIP.

This scholarship was founded by Mrs. Ann Evans in memory of her husband. The income of $2,133 is given annually to that member of the Senior or Junior class who is named by the Board of Trustees, or by some authority to whom they may delegate the nomination. For this scholarship only such

students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates.

SCHOLARSHIP FUNDS.

The income of the following scholarship funds is available, at the discretion of the President, to pay, in whole or in part, the tuition of deserving students who need pecuniary aid:

The Frank S. Jones Scholarship Fund, $1,072, founded by Frank S. Jones, of Brooklyn, N. Y.

The Billings Scholarship Fund, $3,710, founded by William Perry Billings, of Kingston, Pa.

The Shonk Scholarship Fund, $25,465, founded by John J. Shonk and Mrs. George W. Shonk, of Plymouth, Pa., in memory of Hon. George W. Shonk (B. A., 1873).

The Starks Scholarship Fund, $1,080, founded by Mrs. Elizabeth B. Starks, of Troy, N. Y.

The Philip Reynolds Scholarship Fund, $1,079, founded by Philip Reynolds, of Brockton, Mass.

The Connell Scholarship Fund, $3,146, founded by Hon. William Connell, of Scranton, Pa.

The Shepherd Scholarship Fund, $3,181, founded by James G. Shepherd, of Scranton, Pa.

The Swift Scholarship Fund, $11,742, founded by Mrs. Annie M. Swift, of Chicago, Ill., in memory of her husband, Gustavus F. Swift.

The George G. Reynolds Scholarship Fund, $2,611, founded by Hon. George G. Reynolds (B. A., 1841, LL.D., 1871), of Brooklyn, N. Y.

The Cyrus D. Jones Scholarship Fund, $5,132, founded by Cyrus D. Jones, of Scranton, Pa.

The Harriet Townsend Reynolds Scholarship Fund, $2,610, founded by Hon. George G. Reynolds (B. A., 1841, LL. D., 1871), of Brooklyn, N. Y., in memory of his wife.

The Frank Reynolds Scholarship Fund, $2,610, founded by Hon. George G. Reynolds (B. A., 1841, LL.D., 1871), of Brooklyn, N. Y., in memory of his son, who graduated in 1868.

The Abigail Pennoyer Reynolds Scholarship Fund, $2,580, founded by Hon. George G. Reynolds (B. A., 1841, LL.D., 1871), of Brooklyn, N. Y., in memory of his mother.

The Samuel D. Hubbard Scholarship Fund, $10,359, founded by Miss Jennie M. Clarke, of Middletown, in memory of her uncle, Honorable Samuel Dickinson Hubbard, for many years a trustee of Wesleyan University.

The Montgomery Scholarship Fund, $1,014, founded by the Rev. John E. Adams, D. D., of Patchogue, N. Y., trustee of the Jane P. Fitch Benevolent Fund, in memory of Rev. James Montgomery.

The Mead Scholarship Fund, $2,299, founded by Miss Elizabeth J. Mead, of Stamford, Conn., in memory of her father, Rev. Nathaniel Mead.

The Lewis Gunn Scholarship Fund, $2,513, founded by Mrs. Mary C. Holman, of Hopkinton, Mass., and Mrs. Lillie G. Smith, of Washington, Conn., in memory of their father, Rev. Lewis Gunn.

The Jane D. Boardman Scholarship Fund, $10,021, founded in memory of Mrs. Jane D. Boardman, of Middletown, by the executors of her estate, Hon. Frank B. Weeks, of Middletown, and Dr. Joseph H. Townsend, of New Haven.

The Walter Hubbard Scholarship Fund, $40,059, founded by Walter Hubbard, of Meriden.

The Butler Scholarship Fund, $5,000, founded by Seth H. Butler and his sons, Abbott G., Earle C., and Dale D. Butler, all of Middletown.

LOAN FUND.

Besides the scholarships above mentioned, there is a small fund from which loans are made to deserving students in the Junior and Senior classes. These loans bear a moderate rate of interest and are payable usually after graduation.

COLLEGE HONORS.

PRIZES.

THE JOSEPH D. WEEKS PRIZE.—A prize of fifteen dollars is awarded for the best essay on some specified subject in the department of economics. The subject for the essay of 1913 is: The Consumers' League. The essays must be left with the head of the department on or before the third Monday in May (May 19, 1913).

THE PEIRCE PRIZE.—A prize of ten dollars, the income of a fund given by Rev. Bradford K. Peirce, D. D., is awarded for excellence in natural science. It will be given in 1913 upon a special examination based on Course II. in geology. The subject of the examination in 1914 will be chemistry; in 1915, biology.

THE PHI BETA KAPPA PRIZE. — A prize of twenty-five dollars, the gift of the Connecticut Gamma of Phi Beta Kappa, is awarded for excellence in Latin. It will be given in 1913 upon a special examination in the Satires and Epistles of Horace.

THE G. BROWN GOODE PRIZE.—A prize of ten dollars, the gift of Mrs. G. Brown Goode, is awarded for the best original investigation in the department of natural history.

THE JOHN BELL SCOTT PRIZE.—A prize of forty-five dollars, the income of a fund given by the late Charles Scott, is awarded for excellence in the modern languages. It will be given in 1913 for the best essay on the life and works of Heinrich von Kleist. In 1914 the prize will be given for special work in the department of romance languages.

THE GIFFIN PRIZE.—A prize of twenty dollars, the income of a fund given by Mrs. Giffin in memory of her husband, Rev. Charles Mortimer Giffin, D. D., is awarded for the best

essay, by a member of the Senior class who is preparing to enter the Christian ministry or some other form of Christian work, upon some topic in the general field of the philosophy of religion. Originality of style and freshness of thought are considered in making the award. The topic should be chosen in consultation with the Professor of Ethics, and the essay should be handed to him on or before the third Monday in May (May 19, 1913).

No person who has once taken either the Joseph D. Weeks, the Phi Beta Kappa, or the G. Brown Goode prize, may compete for it again.

THE WEEKS PRIZE.—A prize of fifteen dollars is awarded for excellence in modern philosophy. It will be given in 1913 for the best examinations in Courses IX. and X. in philosophy, and for additional work to be assigned by the instructor.

THE CAMP PRIZE.—A prize of twenty-five dollars, the income of a fund given in memory of Samuel T. Camp, is awarded for excellence in English literature. It will be given in 1913 upon a special examination in Course I. in English literature.

THE JOHNSTON PRIZE.—A prize of twenty-five dollars, the gift of Rev. David G. Downey, D. D., in memory of Professor John Johnston, is awarded for excellence in electricity. It will be given in 1913 upon a special examination based on Course VII. in physics.

THE SPINNEY PRIZE.—A prize of fifteen dollars is awarded for excellence in Greek. It will be given in 1913 for special work based in part on the first half of Course II. in Greek.

THE RICE PRIZE.—A prize of twenty dollars, given in memory of Rev. William Rice, D. D., is awarded for excellence in mathematics. It will be given in 1913 upon a special examination based on Course VII. in mathematics.

THE WALKLEY PRIZE.—A prize of twenty dollars, the income of a fund given by Webster R. Walkley, D.C.L.—*in memoriam* David Hart Walkley, born April 23, 1857; graduated June 27, 1878; died September 16, 1878—is awarded for excellence in

psychology. It will be given in 1913 for the best examination on the work of the elementary course in psychology, including the references and collateral readings.

Students who compete for either the Weeks, the Camp, the Johnston, the Spinney, the Rice, or the Walkley prize must do so during the year in which they regularly pursue the course or courses on which the examination for the prize is based.

THE WISE PRIZE.—A prize of fifteen dollars, the income of a fund given by Rev. Daniel Wise, D. D., is awarded to that member of the Senior class who excels in ethics. It will be given in 1913 to that member of the Senior class who presents the best paper on: The Ethics of Journalism.

THE PRENTICE PRIZE.—A prize of twenty-five dollars, given by Mrs. Elizabeth Brooks Prentice in memory of Professor George Prentice, is awarded to that member of the Senior class who excels in German. It will be given in 1913 upon a special examination on the history of German literature from the beginning of the seventeenth century to the death of Goethe.

THE SHERMAN PRIZE.—A prize of ten dollars, the income of a fund given by Rev. David Sherman, D.D., is awarded this year to that member of the Freshman class who excels in Latin. It will be given upon a special examination based on Course I. in Latin. The subject of the examination in 1914 will be Greek; in 1915, mathematics.

THE AYRES PRIZE.—A prize of forty-five dollars, the income of a fund given by Daniel Ayres, M. D., LL.D., is awarded to that member of the Freshman class who is found upon a special examination, held shortly after the beginning of the college year, to have attained the highest excellence in the following studies: Latin, Greek, English, ancient history, and mathematics.

THE RICH PRIZE.—A prize of thirty dollars, the income of a fund given by Isaac Rich, in memory of his wife, is awarded to that member of the Senior class whose oration at Commencement is deemed best in composition and delivery. These

orations must not exceed twelve hundred words in length, and must be left with the Professor of English Literature on or before the second Tuesday preceding Commencement (June 10, 1913).

THE OLIN PRIZE.—A prize of sixty-five dollars, the income of a fund given by Mrs. Julia M. Olin, and increased by Stephen Henry Olin, LL.D., is awarded to that member of the Senior class who excels in English composition. The subject for the essay of 1913 is: Wisdom and Unwisdom in the Teaching of John Ruskin. The subject for the essay of 1914: William Makepeace Thackeray, Novelist and Satirist. Essays must be left with the Professor of English Literature on or before the first Monday of the third term (March 31, 1913).

JUNIOR EXHIBITION PRIZES.—Two prizes, of twenty and fifteen dollars respectively, are awarded to the two members of the Junior class who present the best orations at the annual Junior Exhibition. In the award of these prizes, both the composition and the delivery of the orations are considered. The orations must be left with the Professor of the English Language on or before the first Saturday of the third term (March 29, 1913).

THE COLE PRIZE.—A prize of thirty-five dollars, the gift of George Henry Walker, B. S., in memory of Charles Edward Cole, is awarded to that member of the Sophomore class who maintains the highest standing in English composition from the mid-year period of his Freshman year to the end of his Sophomore year.

THE BRIGGS PRIZE.—A prize of sixty-five dollars, the income of a fund given by James E. Briggs, is awarded to the student who excels in debate. No person who has once taken the Briggs prize may compete for it again.

THE CALEF PRIZE.—A prize of fifty dollars, the gift of Samuel P. Calef, in memory of Hon. Arthur B. Calef, is awarded as a first prize to that member of the Junior or Sophomore class who excels in declamation. In the competition for this prize the selections rendered must be of a forensic character.

THE PARKER PRIZE.—A prize of ten dollars, the income of a fund given by Rev. John Parker, is awarded in the same classes, as a second prize for excellence in declamation.

THE HIBBARD PRIZE.—A prize of twenty-five dollars, the gift of Ralph B. Hibbard, Ph. B., in memory of Professor Ralph Guernsey Hibbard, is awarded to that member of the Freshman class who excels in declamation.

THE TAYLOR PRIZE.—A prize of ten dollars is awarded to the student who presents the best English poem. The poem must be left with the Professor of English Literature before the annual examinations.

The several committees of award will withhold any prize, if, in their judgment, none of the exercises presented in competition for it possess the requisite merit.

AWARD OF PRIZES, 1911-1912.

The Joseph D. Weeks Prize, to HARRY WILLIAM BELL, 1912.

The Peirce Prize, to WILLIAM COLCORD WOODS, 1913.

The Phi Beta Kappa Prize, to BREWSTER HAWKINS JONES, 1914.

The G. Brown Goode Prize, to EDWARD HENRY PERKINS, 1912.

The John Bell Scott Prize, to EUGENE SHEPARD CLARK, 1913.

The Weeks Prize, to EDGAR WATTERS WALLIS, 1912.

The Camp Prize, to WILLIAM COLCORD WOODS, 1913.

The Johnston Prize, to EDWARD HENRY JONES, JR., 1913.

The Spinney Prize, to BREWSTER HAWKINS JONES, 1914.

Committee of Award:—Professor Frank Edward Woodruff, of Bowdoin College.

The Rice Prize, to RALPH IRA BOOTH, 1914.

The Walkley Prize, to WILLIAM GEORGE CHANTER, 1914.

The Prentice Prize, to ROBERT VICTOR STORY, 1912.

Committee of Award:—Professor Clarence Willis Eastman, of Amherst College.

The Sherman Prize, to FREDERICK HOFFMAN HOTCHKISS, 1915.

The Ayers Prize, to CARL WRIGHT PHELPS, 1916, prepared at the Newton High School, Mass.

The Rich Prize, to ANDREW RAYMOND ROBERTSON, 1912.

Committee of Award:—Wilbur F. Gordy, M. A., Daniel R. Howe, M. A., and Alfred M. Hitchcock, M. A., all of Hartford.

The Olin Prize, to HELEN CHANDLER WILLIS, 1912.

Committee of Award:—Mr. Nathan Haskell Dole, of Boston, Mass.

The Cole Prize, to WILLIAM GEORGE CHANTER, 1914.

The First Junior Exhibition Prize, to LLOYD PRESTON RICE, 1913.

Committee of Award:—Heman Charles Whittlesey, B. A., Professor Charles Baker Hedrick, B. A., of the Berkeley Divinity School, and Professor Edgar Fauver, M. D.

The Second Junior Exhibition Prize, to WILLIAM GREENE HOWELLS, 1912.

Committee of Award:—Same as for the First Junior Exhibition Prize.

The Briggs Prize, to GEORGE LANDON BUCK, 1912.

Committee of Award:—Senator Thomas J. Spellacy, of Hartford, Professor Gustavus Adolphus Kleene, Ph. D., of Trinity College, and Hon. George B. Chandler, of Rocky Hill.

The Calef Prize, to HENRY HITT CRANE, 1913.

Committee of Award:—Professor Bradford Paul Raymond, LL. D., Professor Percy Chandler Ladd, B. D., of the Berkeley Divinity School, and Ernest Alexander Inglis, LL. B.

The Parker Prize, to HAROLD LESTER KNAPP, 1913.

Committee of Award:—Same as for the Calef Prize.

The Hibbard Prize, to HAROLD RIDEOUT WILLOUGHBY, 1915.

Committee of Award:—Same as for the Calef Prize.

The Taylor Prize, to RAYMOND TOSTEVIN BOND, 1914.

APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The Junior Exhibition is held on the third Thursday evening of the Spring term (April 10, 1913). The speakers are selected from the men of the Junior class according to their grade in composition subsequent to the Freshman year and by means of a special contest in declamation. The selection of speakers for Commencement, from the men of the Senior class, is determined by their grade in the rhetorical exercises of the Junior and the Senior year and by a special contest in declamation. The number of speakers at each of these public exercises is limited to eight.

The speakers last year were:—

JUNIOR EXHIBITION.

Paul Burt,
George Lansing Harvey,
William Greene Howells,
Walter Thomas James,
Martin O. Olsen,
Lloyd Preston Rice,
Ralph Foster Weld,
Thomas Adamson Wood.

COMMENCEMENT.

George Landon Buck,
Carl Scott Coit,
Richard William Eaton,
Henry Virginius Leonard,
Lester Hobart Libby,
William Wesley Reynolds,
Andrew Raymond Robertson,
Edgar Watters Wallis.

HONORS IN SCHOLARSHIP.

I. HONORS IN GENERAL SCHOLARSHIP. — Two grades of honor, designated respectively as honors and high honors, are conferred at graduation, based upon the general scholarship of the student throughout his whole course.

An honor in general scholarship is awarded to a student who has received a grade not below third on an aggregate of not less than 56 hours' work, as reckoned in the record of standings, has received first grade on a number of hours' work not less than the part of the 56 hours' work on which he has received third grade, and has not fallen below fourth grade in any study of the course.

A high honor in general scholarship is awarded to a student who has received a grade not below second on an aggregate of not less than 56 hours' work, has received first grade on an aggregate of not less than 46 hours' work, and has not fallen below third grade in any study of the course.

II. PRELIMINARY HONORS. — Preliminary honors are awarded in the departments of classics and of mathematics at the end of the Sophomore or Junior year, and no student can receive special honors at graduation in Greek, Latin, or mathematics who has not previously received the corresponding preliminary honors. Notice of candidacy for preliminary honors must be given to the senior officer of the department, and to the Secretary of the Faculty, as early as the first Monday of the third term of the year in which the candidate intends to present himself for the special examination (March 31, 1913). The case of each candidate is decided by the Faculty. The special regulations concerning the award of preliminary honors are as follows:—

Classics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade, in the following courses:—I., I.A, II., and either III. or IV. Greek, and I., I.A, two of Courses II.–V., and any one of Courses VI., XVI., and XVII. in Latin.

2. He must also pass with distinction a special examination, held near the end of the academic year, and designed to test *(a)* his ability to translate Greek and Latin into English

at sight, and *(b)* his knowledge of Greek and Latin grammar, and of Greek and Roman antiquities, mythology, and political and literary history.

Mathematics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade, in such courses in mathematics, amounting to not less than nine hours a week, as may be approved by the head of the department.

2. He must pass with distinction a special examination held near the end of the academic year, which may cover the entire field of his mathematical knowledge.

III. HONORS IN SPECIAL DEPARTMENTS AT GRADUATION.—Two grades of special honor, designated respectively as honors and high honors, are awarded at graduation in each of the following departments:—

Latin; Greek; German; Romance Languages; English; History; Economics and Social Science; Philosophy; Mathematics; Physics; Chemistry; Geology; Biology.

The conditions upon which special honors in these departments are awarded are as follows:—

(1) The candidate must apply to the officer in charge of the department in which he desires to take honors, and to the Secretary of the Faculty, not later than the first Monday of the third term in the Junior year (March 31, 1913).

(2) He must pass at the regular or special examinations in such studies of the college course as are prescribed for honors in the several departments in the schedule given below; and in such studies he must not fall below third grade, and must maintain an average standing of second grade after the beginning of the Sophomore year, or must receive first grade in all of the prescribed studies which he takes after the beginning of the Junior year.

(3) In addition to the studies regularly prescribed in the schedule below, the candidate must pursue such a course of collateral reading or investigation as is prescribed by the officer in charge of the department, with the approval of a committee of the Faculty. The evidence of his proficiency in this collateral course is given by an examination, oral or

written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as may be prescribed by the officer of the department, with the approval of a committee of the Faculty. The case of each candidate is decided by the Faculty.

(4) In addition to other requirements, every candidate for special honors is required to pass a *general examination* covering the entire field of his knowledge in the department in which the honor is given. This examination is oral, and is conducted in the presence of a committee of the Faculty.

(5) No student is awarded special honors who fails to pass in any study of the last two years of the course.

(6) No examination for special honors is given, and no thesis or other work in preparation for special honors is received, after the second Saturday preceding Commencement (June 7, 1913).

The conditions upon which high special honors are awarded are the same as for special honors, with the addition of the following requirements:—

The candidate must receive first grade in all of the prescribed studies which he takes after the beginning of the Sophomore year, and his examinations and other tests must show an exceptionally clear and comprehensive understanding of the studies of the department, and give promise of capacity for independent work.

The following schedule gives the studies required of candidates for special honors in the several departments:—

Latin.—1. So many of the courses in Latin as will amount in the aggregate to not less than sixteen hours a week.

2. Courses I., I.A, II., and either III. or IV., in Greek.

[Candidates for special honors in Latin at graduation are requested to announce their candidacy as early as the beginning of the Junior year.]

Greek. — 1. Courses I.–VII. in Greek, and not less than three hours in courses approved by the Committee on Special Honors.

2. Courses I., I.A, and two of Courses II.–V., in Latin.

German.—1. Courses I.–IV., IX.–XII., and one of Courses V., VI., and VII., in German.

2. Courses I. and II. in French.

3. Course I. in English literature, or Course V. in English language.

Romance Languages.—1. Courses I.–VI. in French, and any two other courses in Romance languages.

2. Courses I. and II. in German.

English.—1. The required courses in English, including composition.

2. One of the following groups of elective courses:—

(a) Five courses in English literature; Course V. or Course VII. in English language; two courses in French, or two courses in German.

(b) Four courses in English language; two courses in English literature; two courses in German and one course in French, or two courses in French and one course in German.

History.—1. All the courses in history.

2. Any three courses in economics and social science.

Economics and Social Science.—1. All the courses in economics and social science.

2. Course I., and either Course VII. or Course VIII., in history.

Philosophy.—One of the following groups of courses:

(a) Courses I.–IV. and VI.–XI. in philosophy, the course in ethics, and the course in the philosophy of religion.

(b) Courses I.–V. and VII.–X. in philosophy, and Courses V. and VI. in biology.

Mathematics.—1. Courses in mathematics and astronomy amounting in the aggregate to not less than nineteen hours a week.

2. Course I. in physics.

[Prospective candidates for special honors in mathematics at graduation are advised to take Course VII. in mathematics in the Sophomore year.]

Physics.—1. Course I. in physics.

2. Two years of practical physics, amounting in the aggregate to not less than five hours a week.

3. Not less than the equivalent of nine hours per week for a year, chosen from Courses III., IV., V., VI., VII., IX., and X. in physics, and Course XIII. in mathematics.

4. Courses I. and II. in chemistry.

5. Course VII. in mathematics.

Chemistry.—1. Courses I.–III., V. (three periods), VI., XIV., and XV. in chemistry.

2. *(a)* Courses VIII., X., and XI. in chemistry, Course I. in physics, and one year of practical physics; or *(b)* Courses V. (a fourth period), VII., and XII. in chemistry, and Courses V. and IX. in biology.

Geology.—1. Courses I.–VI. in geology.

2. The course in descriptive astronomy.

3. Courses III. and IV. in biology.

4. Not less than two of the following courses:—VI., IX., X., and XI. in biology, II. and III. in chemistry, and IV. in physics.

Biology.—1. Courses II.–V. in biology.

2. Two years of practical biology (in at least one of which there shall be three exercises a week).

3. Courses I. and II. in geology.

4. Course I. in chemistry.

5. Either Courses II. and III. in chemistry, or Course IV. in geology.

[Candidates for special honors in biology are recommended to take at least one summer course in a marine laboratory.]

In all cases in which the foregoing schedule allows option between two or more courses or groups of courses, the student's selection is subject to the approval of the head of the department in which he desires to take honors.

In special cases a candidate for honors may be allowed to substitute other courses for those named in the foregoing

schedule, by vote of the Faculty, on recommendation of the head of the department.

An honor of any of the kinds and grades mentioned may be conferred on a student sufficiently meritorious, by vote of the Faculty, even though his record of standing does not completely fulfill the requirements stated above.

The names of those students who take preliminary honors are announced at the public service held in Memorial Chapel on the Monday preceding Commencement (June 16, 1913).

The names of students who take honors at graduation, whether general or special, are printed on the Commencement program.

AWARD OF HONORS,

COMMENCEMENT, 1912.

HONORS IN GENERAL SCHOLARSHIP.

HIGH HONORS.

George Landon Buck.

Faith Bonfoey,
Hester Wilson Reynolds.

HONORS.

Morse Shepard Allen,
Carl Scott Coit,
Richard William Eaton,
George William Henry,
William Greene Howells,
Hubert Darrell Jones,
Amy Sheldon,
Henry Virginius Leonard,
Edward Henry Perkins,
William Wesley Reynolds,
Lawrence Elwood Rothrock,
Robert Victor Story,
Edgar Watters Wallis.
Helen Chandler Willis.

HONORS IN SPECIAL DEPARTMENTS.

BIOLOGY.

Edward Henry Perkins. Thesis: "The Protozoa of Beach Pond."

DEGREES.

The following degrees are conferred by the University in course: Bachelor of Arts (B. A.), Bachelor of Science (B. S.), Master of Arts (M. A.), Master of Science (M. S.).

THE BACHELOR'S DEGREE.—The degrees of Bachelor of Arts and of Bachelor of Science are conferred on those who have met the requirements for admission to the respective courses as set forth on page 32, and have taken the required quota of studies in college, as prescribed on pages 100–102.

The baccalaureate degree is awarded *summa cum laude* to a student who takes high honors both in general scholarship and in one or more departments; *magna cum laude*, to a student who takes a high honor either in general scholarship or in one or more departments; *cum laude*, to a student who takes an honor either in general scholarship or in one or more departments.

THE MASTER'S DEGREE.—The degrees of Master of Arts and of Master of Science are conferred in accordance with the following regulations:—

1. The degree of Master of Arts is conferred upon Bachelors of Arts of Wesleyan University, of at least one year's standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued in residence for a period of not less than one year.* This course of study is under the full direction of a Committee of the Faculty on Graduate

* Candidates for the bachelor's degree who satisfy the requirements for honors in general scholarship may in their senior year be admitted to candidacy for the master's degree, provided that the amount of their undergraduate work remaining to be completed at the close of the September special examinations does not exceed three hours. Except by express permission of the Committee on Graduate Instruction, their undergraduate work must satisfy the group requirement in such manner that they are free to elect the remaining three hours in the department or departments in which they intend to do graduate work. Such candidates shall rank as graduate students and shall not be members of any athletic or debating teams, musical or dramatic organizations, or take part in any similar undergraduate activity. This rule, however, shall not necessarily debar them from competing for any prize for which they would be eligible as undergraduates. The entire work of these candidates will be under the direction of the Committee on Graduate Instruction. The master's degree will not be conferred upon them until the Commencement succeeding that at which the bachelor's degree has been conferred.

Instruction, composed of three permanent members with the addition of the instructor in charge of each department in which the candidate pursues work.

Bachelors of Philosophy of Wesleyan University who apply for the Master's degree are eligible for the degree of Master of Arts.

2. In the case of Bachelors of Arts of other colleges whose course of study is accepted by the Committee on Graduate Instruction, or who pass such additional examinations as the Committee may prescribe, the degree of Master of Arts is conferred on the conditions prescribed in the case of Bachelors of Arts of Wesleyan University pursuing a course of study in residence.

3. The degree of Master of Arts is also conferred upon Bachelors of Arts of Wesleyan University, of at least three years' standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued *in absentia*, and equivalent in amount to that prescribed in the case of resident graduate students; and in all other particulars the same regulations hold in the case of non-resident as in the case of resident students. The degree is also conferred upon Bachelors of Arts of Wesleyan University, of two years' standing, at the satisfactory conclusion of a course of study pursued *in absentia*, on the conditions above specified, provided that the candidate has spent the two years in resident study in a non-professional department of some other university.*

4. The degree of Master of Science is conferred upon Bachelors of Science of Wesleyan University, and upon graduates of other colleges holding an equivalent degree, under the same conditions which govern in the case of the degree of Master of Arts.

5. Bachelors of Science of Wesleyan University, and graduates of other colleges holding a Bachelor's degree other than that of Bachelor of Arts, who pass such examinations in Greek or Latin, and in other literary studies, as the Committee on Graduate Instruction may prescribe, are admitted to the degree of Master of Arts on the conditions prescribed in the case of Bachelors of Arts.

* By vote of the Trustees, June 4, 1912, no application for the Master's degree for work done *in absentia* will be received after January 15, 1913.

6. A fee of five dollars (payable to the Secretary of the Committee) is required of every candidate for the Master's degree at his enrolment; and a fee of ten dollars (payable to the Assistant Treasurer of the University) is required when the degree is conferred.

7. Evidence of the candidate's proficiency in the approved course of study is given in one or more of the following ways, as the Committee may prescribe: *(a)* by examinations, oral or written; *(b)* by a thesis; *(c)* by the exhibition of scientific specimens, preparations, or processes. All such tests of proficiency are under the direction of the Committee, and they report to the Faculty proper candidates for the degree.

In addition to these regulations of the Trustees, the Committee on Graduate Instruction has from time to time adopted standing rules of procedure, among which the following should be noted as specially important:—

Whatever other tests of proficiency may be prescribed, each candidate for the Master's degree is required to pass an oral examination in the presence of the Committee, upon the whole, or a previously specified part, of his course of study.

All examinations, of non-resident as well as of resident candidates, are conducted at the University.

Unless the Committee, for important reasons, determines otherwise in some specific case, no examinations will be given (except in regular college courses), and no thesis or other work prescribed in preparation for the degree will be received, later than the second Saturday before Commencement in the academic year in which the candidate desires to be recommended for the degree (June 7, 1913).

No time-limit is generally fixed within which courses for the Master's degree must be completed. But candidates who have not completed their work at the expiration of six years from the date of their enrolment must renew their enrolment, if they wish to continue their courses. For such renewal no fee will be required.

A complete statement of these rules may be obtained by applying to the Secretary of the Committee on Graduate Instruction (in care of the Office of the University, South College), to whom also all communications from prospective candidates should, in the first instance, be addressed.

DEGREES CONFERRED, JUNE 19, 1912.

DEGREES IN COURSE.

The Degree of Bachelor of Arts was conferred on:

Morse Shepard Allen,
Harold Graham Anderson,
Herbert Soley Bain,
Harry William Bell,
Patrick Edward Bransfield,
George Landon Buck,
Fred Waters Burnham,
Densley Payne Clary,
Carl Scott Coit,
Raymond Haskins Drake,
Richard William Eaton,
Edward Grove Fletcher,
Louis Carter Flocken,
Robert Hinckley Flocken,
John Baker Hanna,
Anton Frederick Haus,
George William Henry,
William Greene Howells,
Henry Strobel Jacobs,
Edgar Allan Jones,
Griffith Lloyd Jones,
Hubert Darrell Jones,
Richard Pratt Jones,
Jason Shepherd Joy,
Henry Virginius Leonard,
Lester Hobart Libby,
John Rhodes Lindemuth,
Thomas Ayres MacClenthen,
Edward Ball Miller,
William Wesley Miller,
Lawrence Elwood Rothrock,
Richard Sutton Rust,
William Warder Shepherd,
Herbert Lincoln Simms,
Louis Sylvester Staples,
Robert Victor Story,
Maurice Eugene Thrasher,
Arthur Harder Van Voris,
Edgar Watters Wallis,
Harold Clark Wilson.

Faith Bonfoey,
Hester Wilson Reynolds,
Amy Sheldon,
Helen Chandler Willis.

The Degree of Bachelor of Science was conferred on:—

George Treat Bristol,
Frank Anson Churchill,
Heth Griffin Coons,
Ralph Lockwood Crandell,
Stanley Benjamin Crowther,
Benjamin William Grant,
Raymond Frederick Hubbard,
Harry Fletcher Lewis,
Carl Howard Mitchell,
Raymond Lee Moore,
Donald Ellsworth Parker,
Jack Cutter Parker,

Charles Emerson Grim,
Frank Mapes Ham,
Carl Clifford Harvey,
Julian Stevens Hayward,
Harold Morton Hine,
Edward Henry Perkins,
Harold Van Houten Proskey,
William Wesley Reynolds,
John Levi Rice,
Andrew Raymond Robertson,
Fred Wilbur Tanner.

The Degree of Master of Arts on examination was conferred on:

Edwin Humphrey Hazen, B. A. (Dartmouth), 1908. Subjects: Latin and English. Thesis: "The Conditional Sentence in Plautus."

Willard Potter Lewis, B. A., 1911. Subject: English. Thesis: "New England Poetry from an Ethical Standpoint."

George Cress Mahle, B. A., 1911. Subject: English. Thesis: "Art of Thackeray."

Constantine Marius Panunzio, B. A., 1911. Subject: English. Thesis: "Browning and Italy."

Wesley Everett Rich, B. A., 1911. Subjects: Economics and History. Thesis: "Workman's Compensation Acts."

Charles Morton Sherburne, B. A., 1911. Subjects: English, Philosophy, History. Thesis: "The Growth of Democratic Sentiment in English Literature during the Fifty Years before Burns."

Ruth Almira Swan, B. A., 1910. Subjects: Latin, Greek, English. Thesis: "Vergil's Debt to Homer."

Arthur Thornton Vanderbilt, B. A., 1910. Subject: History. Thesis: "The Early History of the Supreme Court of the United States."

Henry Merritt Wriston, B. A., 1911. Subjects: History and Economics. Thesis: "Constitutional History of Democracy in the United States."

The Degree of Master of Science on examination was conferred on:—

Elwyn Clark Parlin, B. S., 1911. Subject: German. Thesis: "Relation of Heinrich von Kleist's Dramas to his Life and Times."

HONORARY DEGREES.

The Degree of Master of Arts was conferred on:

John Gribbel, of Philadelphia.
Joseph Addison Richards, of the class of 1883.
Alex. Simpson, Jr., of Philadelphia.
Albert J. Wright, of the class of 1880.

The Degree of Doctor of Divinity was conferred on:

Harry Harvey Beattys, B. A., 1888.
Edgar Van Fossen Du Bois, B. A., 1893.
Charles Wesley Flint, Pastor of the First Methodist Episcopal Church of Middletown.
Robert Seney Ingraham, B. A., 1888.
Edwin Sloan Tasker, B. A., 1890.

The Degree of Doctor of Laws was conferred on:

John Emory Andrus, B. A., 1862.
Simeon Eben Baldwin, Governor of Connecticut.
Amos Jay Givens, of Stamford.
Lemuel Herbert Murlin, President of Boston University.

PUBLICATIONS.

ALUMNI RECORD.—Through the liberality of Orange Judd, M. A., a Biographical Record of the Alumni of the University was published in 1869. A fourth edition of this Record, revised and corrected, was issued in June, 1911. This edition contains not only the record of alumni, revised and corrected to the date of publication, but also a list of all former students not graduates, with their residences, and such other information with reference to them as the most thorough search could obtain. It includes also a brief account of the honorary alumni and the members of the Faculty not graduates of Wesleyan. Copies of this edition may be had upon application to the librarian, W. J. James. The price of the Record, postage prepaid, is $2.00 (paper), $2.50 (cloth).

Information in regard to changes of address of alumni or non-graduates, or in regard to any other facts suitable for future editions of the Record, is earnestly solicited. All who can furnish such information are requested to communicate with Professor F. W. Nicolson, Secretary of the Faculty.

WESLEY BICENTENNIAL.—A memorial volume was issued early in 1904 containing a full record of the celebration of the bicentennial anniversary of the birth of John Wesley by Wesleyan University at the Commencement of 1903. The book was printed by Theo. L. DeVinne & Co., of New York. It contains over 250 pages, and includes a general account of the celebration, the full text of all the addresses delivered, and an appendix giving the names of all committees, of the invited guests who were present, of all recipients of degrees, honorary and in course, and of nearly six hundred alumni who attended the celebration. It is illustrated also with several pictures of the college buildings and grounds, with two excellent portraits of John Wesley, and with portraits of the principal speakers. Applications for the memorial

volume should be sent to the Librarian of Wesleyan University. Price $1.50, postage prepaid.

SEVENTY-FIFTH ANNIVERSARY.—A memorial volume, descriptive of the celebration of the seventy-fifth anniversary of the founding of Wesleyan University, held during the Commencement week of 1906, was published in June, 1907. The volume contains a full account of all the proceedings, including the text of all the addresses, a list of the alumni attending the celebration, a list of degrees conferred, etc., and is illustrated with pictures relating to the history of the University. The historical address by Professor William North Rice and the pictures of the college, old and new, are of peculiar interest to all former students. The volume is published in a form in keeping with the interesting and valuable record it contains. Applications for the memorial volume should be sent to the Librarian of Wesleyan University. Price $1.00, postage prepaid.

INSTALLATION VOLUME.—A volume entitled The Installation of William Arnold Shanklin, L. H. D., LL. D., as Ninth President of Wesleyan University, was published in 1910. Besides an introductory account of the exercises, the book contains a verbatim report of all the speeches delivered at the various exercises of the day, reproductions of all programs and other printed matter connected with the occasion, and lists of the trustees, Faculty, delegates, invited guests, and alumni who were in attendance. A portrait of President Shanklin forms the frontispiece. The volume contains 154 pages and is neatly bound in dark red cloth. Copies may be obtained from the Librarian of the University at one dollar each.

BULLETIN.—The *Bulletin* was first issued in 1888, and has since been published twice a year (usually in May and December), under the direction of a committee of the Faculty. It contains accounts of trustee and alumni meetings, lists of recent gifts, statements of the most urgent needs of the University, changes in the Faculty and courses of study, department notes, and various other matters of interest to the alumni and friends of the institution. It is sent to the trustees and alumni, and may be obtained by other friends of the University upon application to the Secretary of the Faculty.

PICTURE OF THE COLLEGE.—A photogravure in sepia, fifteen by twenty-eight inches, showing the college campus and most of the college and fraternity buildings, has been published by W. T. Littig & Co., of New York. The college has a number of copies of the picture for sale to alumni and others. Price $5.00 each. Orders should be sent to Professor F. W. Nicolson, Secretary of the Faculty.

NECROLOGY.—A list of deceased graduates of the University is published annually in the Spring *Bulletin*. All persons who can supply information for future lists are urgently requested to communicate the same to Professor F. W. Nicolson, Secretary of the Faculty.

THE ALUMNI COUNCIL.

The Alumni Council is composed of representatives elected by the thirty-five classes last graduated, and of ten members at large, elected by the Council, none of whom may be members of the Board of Trustees or of the Faculty of Wesleyan.

This basis of organization makes the Council fairly representative of the entire body of the alumni and, at the same time, gives it a distinctive character, naturally sympathetic with the administration and with the undergraduates, yet independent of both, and with a view-point of its own.

The object of the organization is to strengthen the relations of the alumni and the University, and to bring all Wesleyan graduates and non-graduates into one compact body working for the interests of the institution.

The Council maintains an office in Room 2, East Hall, with an efficient equipment at the service of the alumni, and headquarters at 38 Bleecker Street, New York, N. Y., thus providing a ready means of communication among the alumni themselves and between the alumni, the undergraduates, and the authorities of the college.

ALUMNI ASSOCIATIONS.

ALUMNI COUNCIL.

Chairman—Augustus Burr Carrington, '76, New York, N. Y.
Secretary—Warren French Sheldon, '99, Middletown.

GENERAL ALUMNI ASSOCIATION.

President—Charles Francis Rice, '72, Roxbury, Mass.
Corresponding Secretary—William John James, '83, Middletown.

WESLEYAN ALUMNI CLUB OF NEW ENGLAND.

President—Fred Inness Brown, '98, Boston, Mass.
Secretary—Gordon Clark Douglass, '08, 164 Harvard St., Brookline, Mass.

WESLEYAN YOUNG ALUMNI CLUB OF BOSTON.

President—Gordon Clark Douglass, '08, Brookline, Mass.
Secretary—Edgar Adamson Butters, '08, 77 Summer Street, Boston, Mass.

WESLEYAN UNIVERSITY CLUB OF NEW YORK.

President—George Willets Davison, '92, New York, N. Y.
Secretary—Charles Woodard Atwater, '06, 96 Broadway, New York, N. Y.

WESLEYAN UNIVERSITY ALUMNI CLUB OF NORTHEASTERN PENNSYLVANIA.

President—Edmund Griffin Butler, '68, Wilkes-Barre, Pa.
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An employment bureau is maintained by the Young Men's Christian Association through which needy undergraduates are aided in securing employment during the college year and the summer vacation. Those who wish to avail themselves of this opportunity are invited to register. Alumni and friends of the college are requested to inform the General Secretary of any vacant positions which might be filled by Wesleyan men. No fees are charged in either bureau.

CALENDAR.

1912.

Sept. 19. Thursday, 9 A. M.—First term begins.

Nov. 27–29. Thanksgiving recess.

Dec. 19. Thursday—First term ends.

Last day for presenting applications for winter special examinations.

CHRISTMAS RECESS.

1913.

Jan. 3. Friday—Second term begins.

Jan. 20–Feb. 1. Mid-year examinations.

Feb. 22. Saturday—Washington's Birthday—a holiday.

Mar. 6. Thursday—Prize Debate.

Mar. 18. Tuesday—Second term ends.

Last day for presenting applications for spring special examinations.

SPRING RECESS.

Mar. 26. Wednesday—Third term begins.

Mar. 29. Saturday—Last day for presenting Junior Exhibition essays.

Mar. 31. Monday—Last day for presenting Olin Prize essays.

Mar. 31. Monday—Last day for presenting applications for preliminary and special honors.

April 10. Thursday—Junior Exhibition.

May 19. Monday—Last day for presenting Joseph D. Weeks Prize essays.

May 22. Thursday—Prize declamation contest.

May 30. Friday—Memorial Day—a holiday.

May 31. Saturday—Annual examinations begin.

June 7. Saturday—Last day for presenting special honor theses, and for special honor examinations.

June 7. Saturday—Last day for presenting Master's theses, and for examinations for the Master's degree.

June 10. Tuesday—Last day for presenting Rich Prize essays.
June 15. Sunday morning—Baccalaureate sermon.
June 15. Sunday evening—University sermon.
June 16–21. Examinations of College Entrance Examination Board.
June 16. Monday morning—Business meeting of the Phi Beta Kappa Society.
June 16. Monday morning—Announcement of award of prizes and of preliminary honors.
June 16. Monday afternoon—Class Day.
June 16. Monday evening—Meeting of the Board of Trustees.
June 17. Tuesday morning—Meeting of the Board of Trustees.
June 17. Tuesday morning—Business meeting of the Alumni Association.
June 17. Tuesday afternoon—Social receptions by the college fraternities.
June 18. Wednesday—COMMENCEMENT.

VACATION OF THIRTEEN WEEKS.

Sept. 16. Tuesday—Special examinations for students deficient at the annual examinations.
Sept. 17–18. Examination of candidates for admission.
Sept. 18. Thursday, 9 A. M.—First term begins.

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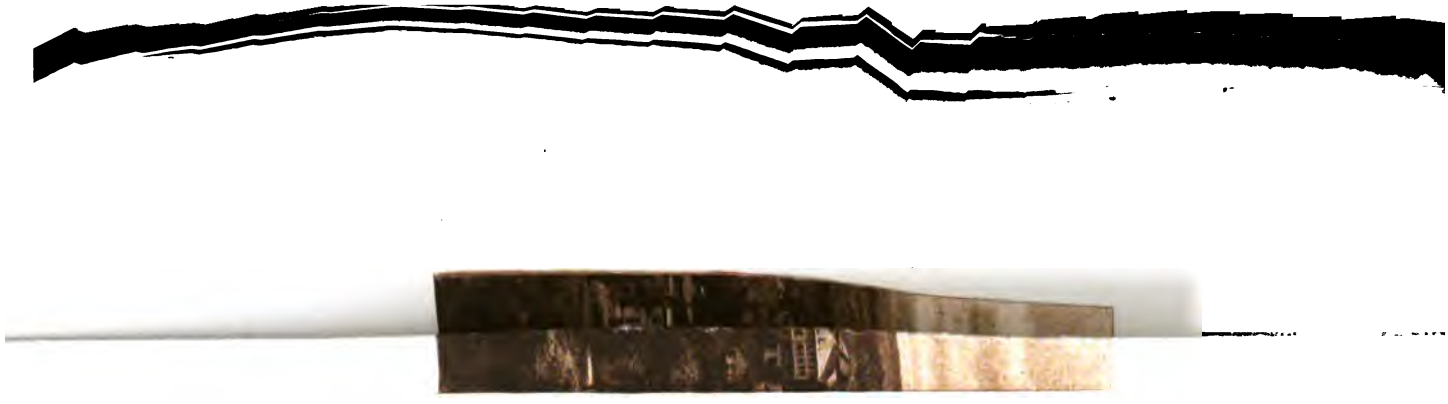

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LOANS; EVANS AND LOVELAND SCHOLARSHIPS.

THE PRESIDENT, MR. JAMES, PROFESSOR NICOLSON.

STUDENTS.

GRADUATE STUDENTS

NAMES.	RESIDENCES.	ROOMS.
Leo Gilbert Cummings, B. A. (Clark College), PHYSICS.	*Leonard Bridge.*	*12 East Hall.*
John Adams Eldridge, B. A., CHEMISTRY, PHYSICS.	*Washington, D. C.*	*276 William St.*
Haynes Harold Fellows, B. A., BIOLOGY.	*Troy, N. Y.*	*9 East Hall.*
Clinton Bedford Ogilvie, B. A. (Clark College), CHEMISTRY.	*Groton, Mass.*	*11 East Hall.*
Jesse David Roberts, B. A., ETHICS, SOCIOLOGY.	*South Meriden.*	*South Meriden.*
Mildred Allen Tyler, B. A. (Smith College), LATIN, GREEK.	*Meriden.*	*Meriden.*

SENIORS.—CLASS OF 1914.

NAMES.	RESIDENCES.	ROOMS.
† Clinton David Abraham,	*Southern Pines, N. C.*	B. Θ. Π. *House.*
Alonzo Clark Allen,	*Gibbstown, N. J.*	*Commons Club.*
Eli Allison,	*Bramley, Leeds, England.*	19 E. H.
Vincent Blake Allison,	*Boston, Mass.*	Δ. T. Δ. *House.*
John Henry Amy,	*East Bangor, Pa.*	*Commons Club.*
Noel Edgar Bensinger,	*Auburn, N. Y.*	*Eclectic House.*
Edward Wayt Bishop,	*Thomasville, N. C.*	Ψ. Υ. *House.*
*† Ralph Chesney Bishop,	*Baltimore, Md.*	
* John Earle Blossom,	*Hawley, Pa.*	
† George Theron Blydenburgh,	*Richmond Hill, N. Y. 115 Broad St.*	
Raymond Tostevin Bond,	*Richmond Hill, N. Y. 99 Broad St.*	
† Ralph Ira Booth,	*Ellenville, N. Y.*	Δ. T. Δ. *House.*
Robert Coleman Brown,	*Elmira, N. Y.*	Ω. Φ. *House.*
Wallace John Brymner,	*Springfield, Mass.*	Ω. Φ. *House.*
William Warren Carman, Jr.,	*Summit, N. J.*	B. Θ. Π. *House.*
† Frank Bonyman Cawley,	*Peabody, Mass.*	Ψ. Υ. *House.*
William George Chanter,	*Detroit, Mich.*	*Eclectic House.*
† Ernest Putnam Clark,	*Auburndale, Mass.*	*Eclectic House.*
Silas Skidmore Clark,	*Mt. Vernon, N. Y.*	Δ. K. E. *House.*
Walter Erskine Cooley,	*Springfield, Mass.*	Ω. Φ. *House.*
*† William Bethel Cornish,	*Paterson, N. J.*	
Howard Reid Craig,	*Lennoxville, P. Q., Canada.*	X. Ψ. *Lodge.*
John Franklin Day,	*Princeton, Me.*	*Commons Club.*
Ernest Raymond Dodge,	*Munich, Germany.*	X. Ψ. *Lodge.*
William Munroe Dox,	*Richmondville, N. Y.*	B. Θ. Π. *House.*
Ralph Olin Dulany,	*Fruitland, Md.*	A. X. P. *House.*
† Edwin Markwick Eustis,	*New York, N. Y.*	A. Δ. Φ. *House.*
Victor Fellini,	*Celano, Italy.*	7 S. C.
John Edwin Fisher,	*Sunapee, N. H.*	A. X. P. *House.*
Joseph Aloysius Francis,	*Dobbs Ferry, N. Y.*	*Eclectic House.*
† George Frederick Freifeld,	*New York, N. Y.*	*Commons Club.*
Joshua Collett Frost,	*Auburn, Me.*	*Eclectic House.*
† Warren Clark Fuller,	*Newton, Mass.*	Ψ. Υ. *House.*

* On leave of absence.

NAMES.	RESIDENCES.	ROOMS.
†Russell Irving Garton,	*Midland Park, N. J.*	A. Δ. Φ. *House.*
Randolph Foster Glenn,	*Philipsburg, Pa.*	Δ. K. E. *House.*
†Charles Albert Goodwin,	*Waterville, Me.*	Δ. K. E. *House.*
Raymond Avery Hall,	*Rochester, N. Y.*	*Eclectic House.*
†Hawthorne Parker Halvorson,	*Saugus, Mass.*	Ψ. Υ. *House.*
†Harry Eugene Harris,	*El Paso, Tex.*	Δ. K. E. *House.*
†James Blood Hasselman,	*Indianapolis, Ind.*	Ψ. Υ. *House.*
Raymond Vincent Hayward,	*Wautoma, Wis.*	Δ. K. E. *House.*
Richard Miner Hewitt,	*Middletown.*	Δ. T. Δ. *House.*
Ira Vaughan Hiscock,	*Farmington, Me.*	*Commons Club.*
Robert Porter Holden,	*Clearfield, Pa.*	A. Δ. Φ. *House.*
John Robert Holmes,	*Batavia, N. Y.*	*Eclectic House.*
Albert Hyde Holt,	*Philadelphia, Pa.*	41 N. C.
Harold Laurence Irving,	*Westfield, N. J.*	A. Δ. Φ. *House.*
†Ira Davis Joel,	*Fitchburg, Mass.*	B. Θ. Π. *House.*
Brewster Hawkins Jones,	*Belleville, N. J.*	*Commons Club.*
John Sibbits Keir,	*Seymour.*	X. Ψ. *Lodge.*
†James Stephen Kellom,	*Winchester, N. H.*	A. X. P. *House.*
Walter William Kohler,	*Rendham, Pa.*	A. X. P. *House.*
Henry Rudolph Konrad,	*Seymour.*	50 N. C.
Esdras Howell Lowry,	*Scranton, Pa.*	*Commons Club.*
Howard Spencer MacKirdy,	*New Britain.*	7 S. C.
†Paul Preston Martin,	*West Quincy, Mass.*	56 N. C.
Manuel Matienzo,	*Ponce, Porto Rico.*	X. Ψ. *Lodge.*
Harry Knight Miller,	*Ocean Grove, N. J.*	*Home Ave.*
Lynn Smith Miller,	*Oneonta, N. Y.*	Ω. Φ. *House.*
†Teja Schmauss Mittell,	*New York, N. Y.*	X. Ψ. *Lodge.*
George Lankton Moore,	*Conneaut, O.*	X. Ψ. *Lodge.*
†Lawrence Beatty Morse,	*Boonton, N. J.*	A. Δ. Φ. *House.*
†Herndon Tudor Morsell,	*Washington, D. C.*	A. Δ. Φ. *House.*
†Leroy Beaumont Noble,	*Haddam.*	*Commons Club.*
Arthur Fiske Potter,	*Portland.*	*Commons Club.*
†Herbert Langdon Pratt,	*Newton Center, Mass.*	Δ. K. E. *House.*
Albert Sears Pruden,	*Middletown.*	X. Ψ. *Lodge.*
†Edward Ritsher Rau,	*Beloit, Wis.*	14 N. C.
John Reeder Reeves,	*New Brunswick, N. J.*	67 N. C.
†Harold Blake Robertson,	*Summit, N. J.*	B. Θ. Π. *House.*
Wilfred Slater Robinson,	*Springfield, Mass.*	X. Ψ. *Lodge.*

NAMES.	RESIDENCES.	ROOMS.
George Miles Rogers,	*West Springfield, Mass.*	A. X P. *House.*
Richard Alfred Rossiter,	*Oswego, N. Y.*	*Commons Club.*
†John Irving Rowell,	*Manchester, N. H.*	A. Δ. Φ. *House.*
†Charles Nathan Rudkin,	*Middletown.*	B. Θ. Π. *House.*
Kendall Ainsworth Sanderson,	*Lynn, Mass.*	*Eclectic House.*
Eugene Wesley Scarborough,	*Madison, N. J.*	Δ. T. Δ. *House.*
Peter Adam Schneider,	*Scranton, Pa.*	X. Ψ. *Lodge.*
Ralph Gordon Sickels,	*Indianapolis, Ind.*	Ψ. Υ. *House.*
†Rodman Moulton Steeb,	*Sparkill, N. Y.*	Δ. T. Δ. *House.*
Floyd Alonzo Stevens,	*Ridgewood, N. J.*	*Commons Club.*
†Horace Bickford Stevens, Jr.,	*El Paso, Tex.*	Δ. K. E. *House.*
†Stewart Niven Storms,	*Dobbs Ferry, N. Y.*	A. X. P. *House.*
Hugh Clark Stuntz,	*Buenos Aires, S. A.*	Δ. T. Δ. *House.*
Francis Albert Sturges,	*Waterport, N. Y.*	56 N. C.
Paul Randolph Sutherland,	*Brooklyn, N. Y.*	A. Δ. Φ. *House.*
†William Harry Sutton,	*Paterson, N. J.*	*Commons Club.*
†Norman Thirkield,	*New Orleans, La.*	*Eclectic House.*
Randall Jay Thurrell,	*Portland, Me.*	B. Θ. Π. *House.*
†Frederick William Trevithick,	*Middletown.*	Δ. T. Δ. *House.*
†Henry Hyde True,	*Washington, D. C.*	Δ. K. E. *House.*
*†Allen Dodge Wheeler, Jr.,	*Newton Center, Mass.*	
†Ransom Ernest Wilcox,	*New York, N. Y.*	X. Ψ. *Lodge.*
Melville Soule Wilding,	*Newark, N. J.*	Ψ. Υ. *House.*
Harold Purcell Winchester,	*Albany, N. Y.*	Δ. K. E. *House.*
†Hiram Walter Young,	*York, Pa.*	Δ. T. Δ. *House.*

* On leave of absence.

JUNIORS—CLASS OF 1915.

NAMES.	RESIDENCES.	ROOMS.
Frederick Raymond Alleman,	*Summit, N. J.*	44 N. C.
Frank Lawrence Beattys,	*Westfield, N. J.*	44 N. C.
Burton Charles Bovard,	*Middletown.*	*208 Lincoln St.*
Amos Dickers Bridge,	*Hazardville.*	B. Θ. Π. *House.*
Charles Daniel Brodhead,	*Bristol, Pa.*	Ψ. Υ. *House.*
John Lee Brooks,	*Windsor.*	A. Δ. Φ. *House.*
†Kenneth Walton Brown,	*Yonkers, N. Y.*	*146 Lincoln St.*
†Read Hess Brown,	*Binghamton, N. Y.*	A. Δ. Φ. *House.*
Harold Arthur Burrell,	*Brooklyn, N. Y.*	*Eclectic House.*
Homer Franklin Carey,	*Southington.*	20 E. H.
Lewis James Carey,	*Southington.*	20 E. H.
†Otto Carpenter,	*Upper Troy, N. Y.*	44 N. C.
George Kellas Cashman,	*Waterbury.*	A. X. P. *House.*
Robert Valden Cassidy,	*Webster, Mass.*	Ψ. Υ. *House.*
Rudolph Wilson Chamberlain,	*Auburn, N. Y.*	*Eclectic House.*
Arthur Randall Davis,	*Fairfield, Me.*	Ω. Φ. *House.*
James Holmes Defandorf,	*Garrett Park, Md.*	Ψ. Υ. *House.*
Arthur Clark Eaton,	*Westfield, Mass.*	Δ. K. E. *House.*
†Daniel Ostrander Ferris,	*Wakefield, Mass.*	Ω. Φ. *House.*
Joseph William Fosa,	*Middletown.*	*27 Ferry St.*
Elon Foster,	*New York, N. Y.*	Δ. K. E. *House.*
Michael Gerome,	*Newark, N. J.*	A. X. P. *House.*
Edward Carleton Gibbons,	*Salisbury, Mass.*	Ω. Φ. *House.*
†William Gammon Greenman,	*Naples, Italy.*	*150 College St.*
Walling Evert Harvey,	*Washington, D. C.*	Ψ. Υ. *House.*
†George Foster Herben,	*Orange, N. J.*	A. Δ. Φ. *House.*
Wilmer Edgar Herr,	*Flemington, N. J.*	B. Θ. Π. *House.*
Elias Wells Hockenbury,	*Pottersville, N. J.*	A. X. P. *House.*
†Frederick Hupman Hotchkiss,	*Waterbury.*	Ω. Φ. *House.*
†Charles Johnson,	*Bristol.*	Ψ. Υ. *House.*
†Dan Cummins Kenan,	*El Paso, Tex.*	Δ. K. E. *House.*
Clarence Ketcham,	*Oyster Bay, N. Y.*	*110 William St.*
†Robert Chipman Kneil,	*Saratoga Springs, N. Y.*	Ψ. Υ. *House.*

NAMES.	RESIDENCES.	ROOMS.
Austin Hubbert Kuhns,	*Middletown.*	Ψ. Υ. *House.*
Roland Louis Luerich,	*Newark, N. J.*	A. X. P. *House.*
† Ross Albert MacMullen,	*Brooklyn, N. Y.*	B. Θ. Π. *House.*
William Bradford Maskiell,	*Long Island City, N. Y.*	*44 Mt. Vernon St.*
Robert Elwood Moore,	*Newark, N. J.*	A. X. P. *House.*
Parker Newhall,	*Lynn, Mass.*	*Eclectic House.*
Edward Fenn Nourse,	*Berlin.*	Δ. T. Δ. *House.*
Frank Harrison Nye,	*Keene, N. Y.*	*24 Grand St.*
David Manker Patten,	*Chattanooga, Tenn.*	*Eclectic House.*
Howard Kistler Petry,	*Wilkes-Barre, Pa.*	Ω. Φ. *House.*
Louis Wetherbee Pitt,	*Middletown.*	A. Δ. Φ. *House.*
Albert Irving Prince,	*Chelsea, Mass.*	Ω. Φ. *House.*
John Wesley Prince,	*Riverdale, Cal.*	B. Θ. Π. *House.*
Joseph Atherton Richards,	*Honolulu, Hawaii.*	Ψ. Υ. *House.*
Harold Andrew Richmond,	*Norwich.*	A. X. P. *House.*
Daniel Mannix Rowe,	*Portland, Me.*	Δ. T. Δ. *House.*
Edward Warren Sine,	*Philadelphia, Pa.*	Ω. Φ. *House.*
† Harold Robert Smart,	*Searsport, Me.*	A. X. P. *House.*
† Hugh Llewellyn Smith,	*Binghamton, N. Y.*	B. Θ. Π. *House.*
† William Sherman Smith,	*Annandale, N. Y.*	*205 South Main St.*
Charles Francis Stanley,	*Middletown.*	Δ. K. E. *House.*
† Walter Richey Stillman,	*Watertown, N. Y.*	Δ. T. Δ. *House.*
† Fred Robert Strasburg,	*Richmond Hill, N. Y.*	*Commons Club.*
† Joseph Aubrey Sutton,	*Haverford, Pa.*	Ψ. Υ. *House.*
Charles Hatfield Taft, Jr.,	*Montclair, N. J.*	Δ. T. Δ. *House.*
James Adams Thompson,	*Plattsburg, N. Y.*	A. Δ. Φ. *House.*
Francis Bourne Upham, Jr.,	*Brooklyn, N. Y.*	*Eclectic House.*
† Samuel Hobart Usher,	*Brooklyn, N. Y.*	Δ. T. Δ. *House.*
Leslie Vanderbilt,	*Newark, N. J.*	Δ. K. E. *House.*
Oakley Emerson Washburn,	*Saugatuck.*	A. X. P. *House.*
John Cheney White,	*Auburn, N. Y.*	*Eclectic House.*
Harold Rideout Willoughby,	*North Haverhill, N. H.*	*Commons Club.*
William Harold Winner,	*Wilmington, Del.*	101 N. C.
† John Howard Withey,	*Harriman, N. Y.*	Δ. T. Δ. *House.*
† James Orville Wood,	*Mapleville, R. I.*	B. Θ. Π. *House.*
† Tracy Wood,	*Nutley, N. J.*	*Commons Club.*
Harold Abbott Wooster,	*Northfield.*	*Commons Club.*
† Henry Hopkins Wright,	*East Hardwick, Vt.*	B. Θ. Π. *House.*

SOPHOMORES—CLASS OF 1916.

NAMES.	RESIDENCES.	ROOMS.
Harold Raymond Aldrich,	*Northfield, Vt.*	62 N. C.
Foster Eames Allison,	*Boston, Mass.*	Δ. T. Δ. *House.*
Raymond Earl Baldwin,	*Middletown.*	*142 Lincoln St.*
† George Whitfield Beeman,	*Albany, N. Y.*	A. Δ. Φ. *House.*
† Willard Robert Bell,	*West Leesport, Pa.*	Ω. Φ. *House.*
Albert Akley Belyea,	*Caribou, Me.*	*262 Court St.*
Frank William Bevan,	*North Adams, Mass.*	38 N. C.
Edgar Lawton Blake, Jr.,	*Chicago, Ill.*	48 N. C.
Irving George Boyd,	*Jersey City, N. J.*	Δ. K. E. *House.*
† Fred J. Broadbent,	*Farmington.*	A. X. P. *House.*
Richard Theodore Broeg,	*Hugo, Ore.*	*64 Church St.*
† Howard Wallace Brown,	*Mount Vernon, N. Y.*	46 N. C.
Alfred Evans Bruner,	*Columbia, Pa.*	77 N. C.
† Edward Rowland Burns,	*Meriden.*	48 N. C.
John William Busch,	*Newark, N. J.*	18 E. H.
† Wilfred McKinley Bywater,	*Middletown.*	*18 Park St.*
† Martin Francis Carpenter,	*Somerville, Mass.*	53 N. C.
Kingman Packard Cass,	*Tilton, N. H.*	58 N. C.
† Do Gieng Ciu,	*Foochow, China.*	18 O. H.
Chester Graves Cole,	*Greeley, Iowa.*	A. Δ. Φ. *House.*
† John Andrew Crafts,	*Mattapan, Mass.*	B. Θ. Π. *House.*
† George Mansfield Craig,	*Middletown.*	*168 Broad St.*
George Bartlett Curtis,	*Bristol, Vt.*	79 N. C.
Warren McAllister Deacon,	*Strasburg, Pa.*	*215 South Main St.*
† Waldemar Louis Deetjen,	*Montclair, N. J.*	A. Δ. Φ. *House.*
Philip Harrison Dodd,	*Shelton.*	*Commons Club.*
Bradford Downey,	*Mt. Vernon, N. Y.*	69 N. C.
† Thomas Edwards Eastman,	*Portland, Me.*	*206 South Main St.*
Wilbur Nelson Edwards,	*Clinton.*	15 O. H.
† Elmer Tice Eustis,	*New York, N. Y.*	*2 Brainerd Ave.*
† Ralph Carlin Flewelling,	*Leominster, Mass.*	A. Δ. Φ. *House.*
Ralph Edward Foster,	*Ansonia.*	38 N. C.
Mansfield Freeman,	*Columbus, O.*	*Eclectic House.*

NAMES.	RESIDENCES.	ROOMS.
† Donald William Gold,	*Redwood Falls, Minn.*	48 N. C.
Joseph Milner Goldblatt,	*Kansas City, Mo.*	*240 College St.*
† Davis William Gordon,	*Hazardville.*	B. Θ. Π. *House.*
† Joel Wright Hadley,	*Indianapolis, Ind.*	Ψ. Υ. *House.*
Edward Benjamin Haines,	*East Hampton.*	*286 College St.*
Abraham Avery Hallock,	*Cromwell.*	Ψ. Υ. *House.*
Charles Leslie Hammond,	*Glens Falls, N. Y.*	54 N. C.
† Samuel Hugh Harvey,	*Willimantic.*	64 N. C.
† George Alfred Hedenburg,	*Worcester, Mass.*	B. Θ. Π. *House.*
John W. Hingeley,	*Evanston, Ill.*	A. Δ. Φ. *House.*
Joseph Anthony Hofmann, Jr.,	*Montclair, N. J.*	*Eclectic House.*
Lewis Edward Holden,	*Goffstown, N. H.*	39 N. C.
† Willard Earl Honsinger,	*Westfield, Mass.*	A. X. P. *House.*
George Shelton Hubbell,	*Dixfield, Me.*	31 N. C.
† Franklin Patton Kellom,	*Winchester, N. H.*	A. X. P. *House.*
Cecil George Kenyon,	*Jamaica, N. Y.*	15 O. H.
William Manly Ketcham,	*Kinston, N. C.*	Δ. T. Δ. *House.*
† James Warren Kinsman,	*Elizabeth, N. J.*	Ψ. Υ. *House.*
† Lester A. Lanning,	*Harvard, Ill.*	89 N. C.
† Robert Fleming Leonard,	*Minneapolis, Minn.*	13 O. H.
† Huo Mi Ling,	*Foochow, China.*	42 N. C.
James George McAlpine,	*Winsted.*	B. Θ. Π. *House.*
Henry McDonald, Jr.,	*Middletown.* 343	*Washington St.*
Robert Chester Macdonald,	*Oswego, N. Y.*	39 N. C.
† William John McFarlane,	*Brooklyn, N. Y.*	*299 College St.*
† Benjamin Henry McGar,	*Meriden.*	B. Θ. Π. *House.*
† Morell MacKenzie,	*Boston, Mass.*	Ψ. Υ. *House.*
George Mair,	*Aberdeen, Scotland.*	41 N. C.
† Edward Leopold Markthaler,	*Elizabeth, N. J.*	Ψ. Υ. *House.*
Eldon Hubert Martin,	*Williamstown, Vt.*	*Commons Club.*
† Raymond Maure,	*Richmond Hill, N. Y.*	B. Θ. Π. *House.*
† Albert Conover Miller,	*Montclair, N. J.*	Δ. K. E. *House.*
Winfield Scott Moore, Jr.,	*Beaver, Pa.*	*Eclectic House.*
† David Valentine Morris,	*Cleveland, O.*	A. Δ. Φ. *House.*
Horace David Nuber,	*Washington, D. C.*	76 N. C.
Matthew Houston O'Brien,	*Washington, D. C.*	76 N. C.
† Rossiter David Olmstead,	*Albion, N. Y.*	X. Ψ. *Lodge.*
Carl Wright Phelps,	*Springfield, Mass.*	*Commons Club.*

NAMES.	RESIDENCES.	ROOMS.
† Algernon Poole Reeves,	*Washington, D. C.*	26 N. C.
William Harvey Reeves,	*New Brunswick, N. J.*	67 N. C.
Arthur Jacob Rice,	*Dallas, Pa.*	Ω. Φ. *House.*
† Leland Francis Ross,	*Fitchburg, Mass.*	B. Θ. Π. *House.*
† Robert Cotton Saltmarsh,	*Lakeport, N. H.*	Δ. T. Δ. *House.*
Herbert Chester Sargent,	*East Barre, Vt.*	*Commons Club.*
† Charles William Seeholzer,	*Wappingers Falls, N. Y.*	*Commons Club.*
† Frank Alfred Slocum, Jr.,	*Brooklyn, N. Y.*	A. Δ. Φ. *House.*
† Earl Place Stevenson,	*Indianapolis, Ind.*	Ψ. Υ. *House.*
† Vernon Forrest Still,	*Elizabeth, N. J.*	46 N. C.
Linford Alexander Thomas,	*Canterbury, Del.*	A. X. P. *House.*
William Wallace Thompson,	*Albany, N. Y.*	A. Δ. Φ. *House.*
† Lyman Stephen Timmerman,	*Little Falls, N. Y.*	Δ. T. Δ. *House.*
† Karl Skillman Van Dyke,	*Upper Montclair, N. J.*	*Eclectic House.*
Joseph Hall Van Schoick,	*Vincentown, N. J.*	*Commons Club.*
John Minard Van Voris,	*Cobleskill, N. Y.*	X. Ψ. *Lodge.*
John Wesley Waldron,	*Port Richmond, N. Y.*	59 N. C.
† Robert Boyd Ward, Jr.,	*New Rochelle, N. Y.*	Ψ. Υ. *House.*
† Walter John Ward,	*Albany, N. Y.*	Δ. K. E. *House.*
† George Clinton Weeks,	*Orange, N. J.*	31 N. C.
† Malvern Paul Westcott,	*Camden, N. J.*	X. Ψ. *Lodge.*
Arthur Corning White,	*Marbledale.*	Ψ. Υ. *House.*
Charles LeRoy Wigren,	*Ansonia.*	A. X. P. *House.*
Alonzo DeWolfe Williams,	*Corning, N. Y.*	B. Θ. Π. *House.*
† Otho Cheney Williams,	*West Corinth, Vt.*	*305 William St.*
Earle Bowen Winchester,	*Albany, N. Y.*	Δ. K. E. *House.*
† Francis Lyon Winslow,	*Montclair, N. J.*	Δ. K. E. *House.*
† Lucien Francis Young,	*Minneapolis, Minn.*	Δ. T. Δ. *House.*
Minor Crawford Young,	*Portland, Ore.*	13 O. H.

FRESHMEN—CLASS OF 1917.

NAMES.	RESIDENCES.	ROOMS.
† Horace Mills Abrams,	*Albany, N. Y.*	X. Ψ. *Lodge.*
† Leslie Adamson,	*West New Brighton, N. Y.*	59 N. C.
† Cecil Albro Allen,	*Brooklyn, N. Y.*	*74 Home Ave.*
† Merritt Lee Allen,	*Rotterdam Junction, N. Y.*	50 N. C.
Harry Fuller Anderson,	*Gloversville, N. Y.*	7 O. H.
† Frederick John Andrews,	*Buckfastleigh, Devon, England.*	24 N. C.
† Earle Sawyer Arnold,	*Meriden.*	B. Θ. Π. *House.*
† Clarence Watson Arthur,	*Upper Troy, N. Y.*	*276 College St.*
† Wesley Owen Ash,	*Carthage, N. Y.*	9 N. C.
† Horace Strow Baldwin,	*Orange, N. J.*	95 N. C.
† Hubert Edwin Beckwith,	*Waterport, N. Y.*	*88 Wyllys St.*
† Alfred Paul Behrmann,	*Waltham, Mass.*	95 N. C.
Olin Winthrop Blackett,	*Dorchester, Mass.*	16 N. C.
Morris Blumer,	*Middletown.*	*37 Warwick St.*
William Rowland Boyd,	*Evanston, Ill.*	94 N. C.
† Kenneth Earle Breese,	*Troy, N. Y.*	12 N. C.
† Vernon Howard Brierley,	*Brooklyn, N. Y.*	*250 High St.*
Walter David Briggs,	*East Greenwich, R. I.*	*149 Lincoln St.*
Arthur Frank Brown,	*New Haven.*	17 E. H.
† Herbert Pearce Brown, Jr.,	*Spring Lake, N. J.*	9 O. H.
† Walter Francis Buck,	*Stafford Springs.*	12 N. C.
† Alonzo Perine Burnett,	*West Summit, N. J.*	83 N. C.
† Austin Earle Calkins,	*Roselle, N. J.*	B. Θ. Π. *House.*
† Ralph Hubert Caouette,	*Westfield, Mass.*	30 N. C.
† Charles Graham Chapin,	*Wilbraham, Mass.*	18 N. C.
Emanuel Louis Chiesa,	*Brooklyn, N. Y.*	35 N. C.
† Frank Marshall Clark,	*Peekskill, N. Y.*	*81 Home Ave.*
Lewis Bates Codding, Jr.,	*Brockton, Mass.*	1 O. H.
David McKee Conway,	*Washington, D. C.*	81 N. C.
† Richard Cramm,	*Small Point, Newfoundland.*	6 O. H.
† Myron Beach Craver,	*Brooklyn, Pa.*	12 O. H.
Karl Warren Curtis,	*Bristol, Vt.*	79 N. C.
Frank Roberts Custard,	*Scranton, Pa.*	19 O. H.

NAMES.	RESIDENCES.	ROOMS.
Philip Ayers Dales,	*Washington, D. C.*	81 N. C.
Norman Lambert Davidson,	*Bethlehem, Pa.*	*301 College St.*
Donald Hardy Dorchester,	*New Haven.*	14 O. H.
Carl Leslie Eaton,	*Waltham, Mass.*	33 N. C.
† **William Ramsay Edmonds,**	*Elizabeth, N. J.*	16 O. H.
Albert Arnold Elsey,	*Philadelphia, Pa.*	88 N. C.
† **Julian Griffin Ely,**	*Hamburg.*	3 N. C.
John Wesley Faust,	*Nanticoke, Pa.*	19 O. H.
Solomon Jonathan Fendel,	*New Bitrain.*	*34 Pleasant St.*
† **Wilson Kelty Fisher,**	*Plano, Ill.*	86 N. C.
† **Winfield Stitt Fisher,**	*Plano, Ill.*	86 N. C.
† **Robert James Fletcher,**	*New Britain.*	*New Britain.*
George Albert Fowler,	*Anacostia, D. C.*	B. Θ. Π. *House.*
George Lawrence Gans,	*New Britain.*	*34 Pleasant St.*
Alexander Wilson Greer,	*Ridgefield.*	*78 Home Ave.*
† **James Vernon Gridley,**	*Paterson, N. J.*	*78 Home Ave.*
† **Oscar Francis Haffner,**	*Gloversville, N. Y.*	7 O. H.
Warren Haines,	*Portland.*	*Portland.*
† **James Hale,**	*Springfield, Mass.*	28 N. C.
† **Frank Austin Hamilton,**	*New Bedford, Mass.*	65 N. C.
Henry Martyn Harman,	*New Rochelle, N. Y.*	14 N. C.
Robert Moffat Henry,	*Sayre, Pa.*	7 N. C.
Nahor Yard Hill,	*Morristown, Tenn.*	1 N. C.
† **Victor Emanuel Holmstrom,**	*Hartford.*	*65 Pine St.*
† **Edwin Nott Hopson, Jr.,**	*Paterson, N. J.*	26 N. C.
Carlton Hurst,	*Barcelona, Spain.*	14 O. H.
† **Chester Craig Irving,**	*Fitchburg, Mass.*	29 N. C.
Frank Willard Johnson,	*Long Island City, N. Y.*	73 N. C.
George Frederick Johnson,	*Riverside, N. J.*	17 O. H.
Warren Irving Keith,	*South Manchester.*	A. X. P. *House.*
† **Harold William Kephart,**	*Brooklyn, N. Y.*	*250 High St.*
† **Kristen Kristensen,**	*Gundloft, Denmark.*	12 O. H.
† **Frederick Thompson Laing,**	*Chelsea, Mass.*	6 O. H.
† **Marshall Grant Lee,**	*Pasadena, Cal.*	99 N. C.
† **Carroll Herbert Lewis,**	*Brooklyn, N. Y.*	X. Ψ. *Lodge.*
Ralph Morgan Lewis,	*Pottsville, Pa.*	*Commons Club.*
† **Harold Whittier Lidstone,**	*Danforth, Me.*	*Pleasant St.*
† **Albert Lindstrom,**	*Nutley, N. J.*	30 N. C.

NAMES.	RESIDENCES.	ROOMS.
Norman Douglas Lothrop,	*Richmond, Me.*	*58 Wyllys St.*
† Charles Francis McDonald, Jr.,	*Trenton, N. J.*	X. Ψ. *Lodge.*
† Robert Haines MacLaury,	*York, Pa.*	15 N. C.
† Willis Gordon MacLelland,	*Waterbury.*	A. X. P. *House.*
† Lawrence Parsons Marshall,	*Everett, Mass.*	9 N. C.
† Raymond Lewis Martin,	*Barre, Vt.*	*13 Cross St.*
Augustus Moore Maxwell,	*Chicago, Ill.*	4 N. C.
Floyd Ruddick Miller,	*Ossining, N. Y.*	92 N. C.
† Percy Peixotto Morningstar,	*New York, N. Y.*	98 N. C.
Frank Willard Morrell,	*New York, N. Y.*	74 N. C.
Gorham Bert Munson,	*New Haven.*	91 N. C.
† Paul Oliphant Nafe,	*El Paso, Tex.*	X. Ψ. *Lodge.*
† William G. Nixon,	*Bridgeton, N. J.*	*2 Brainerd Ave.*
Francis Osborn Noble,	*Carlisle, Pa.*	96 N. C.
Charles Leroy Northridge,	*Worcester, Mass.*	9 O. H.
† Clarence Armour Parliament,	*Highland Park, Ill.*	80 N. C.
† Clifford Clark Payson,	*Westville.*	11 O. H.
† Matias Perez,	*Dupax, P. I.*	*88 Wyllys St.*
† Ernest Ralph Perkins,	*Tilton, N. H.*	85 N. C.
† Francis Wilbur Pettengill,	*West Sullivan, Me.*	16 E. H.
† Edwin Morgan Pickop,	*Kensington.*	*Kensington.*
† Fred Elbert Pitkin,	*Marshfield, Vt.*	*305 William St.*
† John Theodore Plate,	*Elizabeth, N. J.*	16 O. H.
Francis Wilcox Potter,	*Portland.*	35 N. C.
George Reuben Potter,	*Fitchburg, Mass.*	29 N. C.
† Ernest Francis Purcell,	*Spring Lake Beach, N. J.*	16 E. H.
† George Hibbard Purdy,	*Morrisonville, N. Y.*	17 E. H.
Robert Fulton Raymond, Jr.,	*Newton Centre, Mass.*	11 O. H.
† Walter Royal Rearick,	*Danville, Ill.*	19 N. C.
Leonard Alexander Rice,	*Somerville, Mass.*	18 N. C.
† Earle Edmunds Richardson,	*Rumford, Me.*	17 O. H.
Bernard Charles John Roberg,	*New Haven.*	101 N. C.
† Charles Frederick Robertson, Jr.,	*North Tonawanda, N. Y.*	2 O. H.
† Max Ruderman,	*Middletown.*	*11 Hotchkiss St.*
† James Milton Salisbury,	*Catskill, N. Y.*	19 O. H.
Charles Daniel Sapp,	*Baltimore, Md.*	6 N. C.
† William Fleming Savale,	*Orange, N. J.*	21 N. C.
Harrison Monell Sayre,	*Newark, N. J.*	88 N. C.

NAMES.	RESIDENCES.	ROOMS.
† Angus James Seamans,	*Watervliet, N. Y.*	*58 Wyllys St.*
William Arnold Shanklin, Jr.,	*Middletown.*	*325 High St.*
† George Warner Skilton,	*Thomaston.*	3 N. C.
† Edward Crocker Sloan,	*La Tuque, P. Q., Canada.*	85 N. C.
† Charles Stewart Smith,	*Stamford.*	94 N. C.
Carl Leo Stearns,	*Westbrook, Me.*	3 O. H.
John Allen Stephens, Jr.,	*Albany, N. Y.*	20 O. H.
Frank Edward Stevens,	*Lexington, Okla.*	*Gymnasium.*
† Lucian Henry Stevens,	*Lexington, Okla.*	*Gymnasium.*
Henry Charles Stone,	*Hartford.*	*65 Pine St.*
† George Elwood Stookey,	*Huntington Mills, Pa.*	12 O. H.
† John Russell Studwell,	*Greenwich.*	27 N. C.
James Stanley Sutton,	*Yonkers, N. Y.*	*146 Lincoln St.*
† Walter Richard Talbot,	*Newark, N. J.*	8 N. C.
† James Livingstone Thompson,	*Indianapolis, Ind.*	71 N. C.
† Mehran Kafafian Thomson,	*Paterson, N. J.*	23 N. C.
† Harry Morgan Tiebout,	*New York, N. Y.*	21 N. C.
Hugh Kelso Tobias,	*Albany, N. Y.*	20 O. H.
Charles Powell Townsend,	*Milton, N. Y.*	*Mt. Vernon St.*
† Frank Trelease Underhill,	*New York, N. Y.*	2 O. H.
† Charles Lawrence Uniacke,	*Wallingford.*	*301 College St.*
† Henry Atwater Van Dyke,	*Upper Montclair, N. J.*	33 N. C.
† Donald Walden;	*New York, N. Y.*	A. Δ. Φ. *House.*
James Vincent Walsh,	*Middletown.*	*82 Hubbard St.*
† Norman Wigley,	*Beaver, Pa.*	1 N. C.
† Howard Banner Willets,	*Binghamton, N. Y.*	7 N. C.
† Samuel Prescott Williams,	*New Haven.*	*Commons Club.*
Weir Williams,	*Evanston, Ill.*	96 N. C.
Edwin Henry Witman,	*Berwick, Pa.*	Δ. K. E. *House.*
Truman Hollis Woodward,	*Rockville.*	*301 College St.*
† Leslie George Wright,	*Bristol.*	10 O. H.

SPECIAL STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Earl Stanley Hall,	*Rochester, N. Y.*	10 O. H.
Ralph Achilles Mautone,	*Middletown.*	*100 Main St.*
Alfred Norton Sweet,	*Middletown.*	*50 Crescent St.*
Harold Webster Tillinghast,	*East Greenwich, R. I.*	*149 Lincoln St.*
Farrant Lewis Turner,	*Honolulu, Hawaii.*	21 N. C.
Edgar Clair Weston,	*Altoona, Pa.*	*240 Court St.*
Harold Wilkinson,	*Middletown.*	*11 Babcock St.*

SUMMARY.

GRADUATE STUDENTS,	6
SENIORS,	96
JUNIORS,	71
SOPHOMORES,	100
FRESHMEN,	140
SPECIAL STUDENTS,	7
Total,	420

ABBREVIATIONS.

N. C.,	North College.
S. C.,	South College.
O. H.,	Observatory Hall.
E. H.,	East Hall.
J. H.,	Judd Hall.
F. H.,	Fisk Hall.
S. L.,	Scott Laboratory of Physics.
†	Scientific Course.

CLASSIFICATION BY RESIDENCE.

UNITED STATES.

New York,	95
Connecticut,	78
New Jersey,	57
Massachusetts,	46
Pennsylvania,	31
Maine,	16
District of Columbia,	10
Illinois,	10
New Hampshire,	9
Vermont,	9
Indiana,	5
Maryland,	4
Texas,	4
Minnesota,	3
North Carolina,	3
Ohio,	3
Rhode Island,	3
California,	2
Delaware,	2
Oklahoma,	2
Oregon,	2
Tennessee,	2
Wisconsin,	2
Iowa,	1
Louisiana,	1
Missouri,	1
Michigan,	1

FOREIGN COUNTRIES.

Canada,	2
China,	2
England,	2
Hawaii,	2
Italy,	2
Denmark,	1
Spain,	1
Germany,	1
Newfoundland,	1
Philippine Islands,	1
Porto Rico,	1
Scotland,	1
South America,	1
Total,	420

GENERAL STATEMENT.

Courses of Study.—The College presents to its undergraduates the option of two parallel courses of study, each extending through four years, one leading to the degree of Bachelor of Arts, the other to the degree of Bachelor of Science. Either Latin or Greek is required for admission to the former course. In the Freshman year English is required of students of both courses. The rest of the work is elective from a limited number of courses, with the requirement that a candidate for the B. A. degree must take a three-hour course in either Latin or Greek, and a three-hour course in one of the following: Latin, Greek, Mathematics, Modern Languages; a candidate for the B. S. degree must take the following courses in college, unless he has presented them for admission: Trigonometry, and either Advanced Algebra, Solid Geometry, or Analytic Geometry; I. and II. French; I. and II. German. In the three remaining years, all the studies are elective, within the limits of a group system. Each student must elect a major study.

Special Courses. — Students who do not desire to complete either of the foregoing courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the college.

Graduate Studies.—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments. Further information concerning such graduate courses is given in the reports of the several departments on courses of instruction, and also in connection with the statement of conditions for the degrees of Master of Arts and Master of Science.

REQUIREMENTS FOR ADMISSION.

For admission without condition the candidate must secure credit for 14½ units, a unit representing a year's work in a secondary school with four or five periods a week.

B. A. DEGREE.—Candidates for the B. A. degree must present English, 3 units, Elementary Algebra, 1½ units, Plane Geometry, 1 unit, Ancient History, 1 unit, and either Latin, 4 units, or Greek, 3 units; making a total of 10½ or 9½ units. The remaining units to make up a total of 14½ may be selected from any of those specified below. Unless both Latin and Greek are offered, candidates must present an elementary modern language, or take a corresponding course in college.

B. S. DEGREE.—Candidates for the B. S. degree must present English, 3 units, Elementary Algebra, 1½ units, Plane Geometry, 1 unit, History, 1 unit, one elementary modern language, 2 units; making a total of 8½ units. The remaining units to make up a total of 14½ may be selected from any of those specified below. Unless two units in science are offered, at least five hours of science must be taken in college.

SCALE OF VALUES.

	Units.
English,	3
Latin, 2 years,	2
3rd year,	1
4th year,	1
Greek, 2 years,	2
3rd year,	1
German—Elementary, 2 years,	2
Intermediate, 3rd year,	1
French—Elementary, 2 years,	2
Intermediate, 3rd year,	1

	Units.
History—Ancient History,	1
Mediaeval and Modern History,	½ or 1 *
English History,	½ or 1 *
American History,	½ or 1 *
Mathematics—Elementary Algebra,	1½
Plane Geometry,	1
Solid Geometry,	½
Advanced Algebra,	½
Plane Trigonometry,	½
Physics, theoretical and practical,	1
Chemistry, theoretical and practical,	1
Physical Geography,	½ or 1 *
Biology,	½ or 1 *

REQUIREMENTS IN DETAIL.

ENGLISH.

Preparation in English has two main objects: (1) command of correct and clear English, spoken and written; (2) ability to read with intelligence and appreciation.

I. ENGLISH GRAMMAR AND COMPOSITION.

The first object requires instruction in grammar and composition. English grammar should ordinarily be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition governing punctuation, the use of words, paragraphs, and the different kinds of composition, including letter writing, should be thoroughly mastered; and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise narration, description, and easy exposition and argument based upon simple outlines. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from his reading in literature. Finally, special instruction in language

* Depending on the length of the course.

and composition should be accompanied by concerted effort of teachers in all branches to cultivate in the student the habit of using good English in his recitations and various exercises, whether oral or written.

II. LITERATURE.

The second object is sought by means of two lists of books, headed respectively Reading and Study, from which may be framed a progressive course in literature covering four years. In connection with both lists, the student should be trained in reading aloud and encouraged to commit to memory some of the more notable passages both in verse and in prose. As an aid to literary appreciation, he is further advised to acquaint himself with the most important facts in the lives of the authors whose works he reads and with their place in literary history.

A. READING.—The aim of this course is to foster in the student the habit of intelligent reading and to develop a taste for good literature, by giving him a first-hand knowledge of some of its best specimens. He should read the books carefully, but his attention should not be so fixed upon details that he fails to appreciate the main purpose and charm of what he reads.

With a view to large freedom of choice, the books provided for reading are arranged in the following groups, from which at least ten units* are to be selected, two from each group:

1. The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the Odyssey, with the omission, if desired, of Books I., II., III., IV., V., XV., XVI., XVII.; the Iliad, with the omission, if desired, of Books XI., XIII., XIV., XV., XVII., XXI.; Vergil's Aeneid. The Odyssey, Iliad, and Aeneid should be read in English translations of recognized literary excellence.

For any unit of this group a unit from any other group may be substituted.

2. Shakespeare's Merchant of Venice; The Midsummer Night's Dream; As You Like It; Twelfth Night; Henry the Fifth; Julius Cæsar.

* Each "unit" is set off by semicolons.

3. Defoe's Robinson Crusoe, Part I.; Goldsmith's Vicar of Wakefield; either Scott's Ivanhoe or Scott's Quentin Durward; Hawthorne's The House of the Seven Gables; either Dickens's David Copperfield, or Dickens's A Tale of Two Cities; Thackeray's Henry Esmond; Mrs. Gaskell's Cranford; George Eliot's Silas Marner; Stevenson's Treasure Island.

4. Bunyan's Pilgrim's Progress, Part I.; The Sir Roger de Coverley Papers in The Spectator; Franklin's Autobiography (condensed); Irving's Sketch Book; Macaulay's Essays on Lord Clive and Warren Hastings; Thackeray's English Humourists; Selections from Lincoln, including at least the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, and Letter to Horace Greeley, along with a brief memoir or estimate; Parkman's Oregon Trail; either Thoreau's Walden, or Huxley's Autobiography and Selections from Lay Sermons, including the addresses on Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk; Stevenson's Inland Voyage and Travels with a Donkey.

5. Palgrave's Golden Treasury (First Series), Books II. and III., with especial attention to Dryden, Collins, Gray, Cowper, and Burns; Gray's Elegy in a Country Churchyard and Goldsmith's Deserted Village; Coleridge's Ancient Mariner and Lowell's The Vision of Sir Launfal; Scott's The Lady of the Lake; Byron's Childe Harold, Canto IV., and The Prisoner of Chillon; Palgrave's Golden Treasury (First Series), Book IV., with especial attention to Wordsworth, Keats, and Shelley; Poe's Raven, Longfellow's The Courtship of Miles Standish, and Whittier's Snow Bound; Macaulay's Lays of Ancient Rome and Arnold's Sohrab and Rustum; Tennyson's Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur; Browning's Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Hervé Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City.

B. STUDY.—This part of the requirement is intended as a natural and logical continuation of the student's earlier reading, with greater stress laid upon form and style, the exact meaning of words and phrases, and the understanding of

allusions. For this close reading are provided a play, a group of poems, an oration, and an essay, as follows:

Shakespeare's Macbeth; Milton's L'Allegro, Il Penseroso, and Comus; either Burke's Speech on Conciliation with America, or both Washington's Farewell Address and Webster's First Bunker Hill Oration; either Macaulay's Life of Johnson, or Carlyle's Essay on Burns.

EXAMINATIONS.—However accurate in subject-matter, no paper will be considered satisfactory if seriously defective in punctuation, spelling, or other essentials of good usage.

The examination will be divided into two parts, one of which may be taken as a preliminary, and the other as a final.

The first part of the examination will be upon the books chosen, in accordance with the plan described earlier, from the lists headed Reading; and it may include also questions upon grammar and the simpler principles of rhetoric, and a short composition upon some topic drawn from the student's general knowledge or experience. On the books prescribed for reading, the form of the examination will usually be the writing of short paragraphs on several topics which the candidate may choose out of a considerable number. These topics will involve such knowledge and appreciation of plot, character-development, and other qualities of style and treatment as may be fairly expected of boys and girls. In grammar and rhetoric, the candidate may be asked specific questions upon the practical essentials of these studies, such as the relation of the various parts of a sentence to one another, the construction of individual words in a sentence of reasonable difficulty, and those good usages of modern English which one should know in distinction from current errors.

The second part of the examination will include composition and those books comprised in the list headed Study. The test in composition will consist of one or more essays, developing a theme through several paragraphs; the subjects will be drawn from the books prescribed for study, from the candidate's other studies, and from his personal knowledge and experience quite apart from reading. For this purpose the examiner will provide several subjects, perhaps five or six, from which the candidate may make his own selections. The test on the books

prescribed for study will consist of questions upon their content, form, and structure, and upon the meaning of such words, phrases, and allusions as need explanation for an understanding of the works and an appreciation of their salient qualities of style. General questions may also be asked concerning the lives of the authors, their other works, and the periods of literary history to which they belong.

NOTE. The requirements in English in 1915 and thereafter will be those recommended by the National Conference on Uniform Entrance Requirements in English, and recently adopted by the College Entrance Examination Board. A statement of the new requirements may be obtained by addressing the Secretary of the Faculty.

LATIN.

I. AMOUNT AND RANGE OF READING REQUIRED.

1. The Latin reading required of candidates for admission to the B. A. course, without regard to the prescription of particular authors and works, is not less *in amount* than Caesar, Gallic War, I.–IV.; Cicero, the orations against Catiline, for the Manilian Law, and for Archias; Vergil, Aeneid, I.–VI.

2. The amount of reading specified above should be selected by the schools from the following authors and works: Caesar (Gallic War and Civil War) and Nepos (Lives); Cicero (orations, letters, and De Senectute) and Sallust (Catiline and Jugurthine War); Vergil (Bucolics, Georgics, and Aeneid) and Ovid (Metamorphoses, Fasti, and Tristia).

II. SUBJECTS AND SCOPE OF THE EXAMINATIONS.

1. Translation at Sight. Candidates will be examined in translation at sight of both prose and verse. In vocabulary, constructions, and range of ideas, the passages set will be suited to the preparation secured by the reading indicated above.

2. Prescribed Reading. Candidates will be examined also upon the following prescribed reading: Cicero, orations for the Manilian Law and for Archias, and Vergil, Aeneid, I., II., and either IV. or VI. at the option of the candidate, with questions on subject-matter, literary and historical allusions, and prosody. Every paper in which passages from the prescribed reading are

set for translation will contain also one or more passages for translation at sight; and candidates must deal satisfactorily with both these parts of the paper, or they will not be given credit for either part.

The papers set by the College Entrance Examination Board, corresponding to the above requirements, are Latin 4 and 5.

3. Grammar and Composition. The examinations in grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose. The words, constructions, and range of ideas called for in the examinations in composition will be such as are common in the reading of the year, or years, covered by the particular examination.

The papers set by the College Entrance Examination Board, corresponding to the above requirements, are Latin 1 and 2.

In the case of candidates who desire credit for *two years'* work in Latin, the required reading is not less *in amount* than Caesar, Gallic War, I.–IV., and should be selected from the following: Caesar (Gallic War and Civil War) and Nepos (Lives). The test is on ability to read at sight, and no part of the reading is prescribed for examination. The corresponding paper of the College Entrance Examination Board is Latin 3. For *three years'* credit, the required reading is not less *in amount* than Caesar, Gallic War, I.–IV., and Cicero, the orations against Catiline, for the Manilian Law, and for Archias; this reading should be selected from Caesar (Gallic War and Civil War) and Nepos (Lives), Cicero (orations, letters, and De Senectute) and Sallust (Catiline and Jugurthine War). Cicero's orations for the Manilian Law and for Archias are prescribed for examination, in addition to the translation at sight. The corresponding paper of the College Entrance Examination Board is Latin 4. For this may be substituted, if desired, the examination in fourth-year Latin, Vergil and Translation of Poetry at sight (Latin 5).

Certificates for two years of Latin must state that the candidate has had systematic practice, and has exhibited satisfactory proficiency, in reading at sight Latin of the average difficulty of Caesar; certificates for three years must vouch for similar

practice and proficiency in reading at sight Latin of the average difficulty of either Cicero's orations or Vergil's Aeneid; and certificates for four years must vouch for such practice and proficiency in reading at sight Latin of the average difficulty of both Cicero's orations and Vergil's Aeneid.

GREEK.

1. Greek grammar, including prosody. The following text-books are recommended: Hadley-Allen's, Goodwin's, or Babbitt's.
2. Xenophon,—Anabasis, books I.–IV.
3. Homer,—Iliad, books I.–III.
4. Translation at sight of one or more passages from Xenophon.
5. Translation into Greek of easy narrative passages based on the required books of the Anabasis.

To meet the full requirement in Greek, candidates must pass the following examinations of the College Entrance Examination Board: Greek *a i*, *a ii*, *b*, *c*, *g*.

GERMAN.

ELEMENTARY (counting as two units).—Such a knowledge of the language is required as may be obtained by the reading of at least 300 pages, part of which should be read at sight. It is recommended that there be sufficient aural and oral practice to enable the student to write simple German prose from dictation and to read the language aloud with a correct and intelligible pronunciation. The ability to answer simple questions in German is also highly important. The examination consists of the translation at sight into English of easy passages of German, elementary grammatical questions, and the translation of simple English sentences into German. To meet this requirement two years' work will generally be necessary.

INTERMEDIATE.—The requirement includes the reading of at least 300 additional pages of German (not more than half of which should be fiction), and regular practice in writing and speaking German. Further practice in speaking German is recommended, sufficient to enable the student to understand

simple spoken German, and to express simple ideas in the language. At least one additional year of study will be necessary to meet this requirement.

FRENCH.

ELEMENTARY (counting as two units).—Such a knowledge of the language is required as may be obtained by the reading of at least 400 pages, part of which should be read at sight. The examination consists of the translation at sight into English of easy passages of French, elementary grammatical questions, and the translation of simple English sentences into French. To meet this requirement two years' work will generally be necessary.

INTERMEDIATE.—The requirement includes the reading of not less than 600 additional pages of French (including at least two works of a dramatic character), and regular practice in writing and speaking French. At least one additional year of study will be necessary to meet this requirement.

HISTORY.

1. Ancient History to the death of Charlemagne (814).
2. Mediaeval and Modern European History from the death of Charlemagne (814) to the present time.
3. English History.
4. American History and Civil Government.

These four courses are outlined in *The Study of History in Schools: Report to the American Historical Association by the Committee of Seven* (1899), and with more detail in *A History Syllabus for Secondary Schools . . . . by a Special Committee of the New England History Teachers' Association* (1904), and in *Syllabus for Secondary Schools, 1910*, published by the University of the State of New York. These courses are identical with those scheduled for examination by the College Entrance Examination Board.

In each of the above courses the following requirements must be met:

1. One year of historical work, wherein the study is given five times per week, or two years of historical work, wherein the study is given three times per week.

2. Such general knowledge of the whole course as may be acquired from the study of an accurate text-book, amounting to not less than 500 pages.

3. A fuller knowledge derived from suitable collateral reading, in books of a less elementary nature, amounting to at least 500 pages.

4. Comparisons between historical characters, periods, and events, and in general the power to combine in orderly fashion the results of reading, and to exercise judgment as well as memory.

5. Geographical knowledge, tested by the location of places, movements, and territorial changes on an outline map, by physical features wherever possible, as well as by political features.

Schools having the certificate privilege must certify only those courses in history actually pursued in the high school and must omit any courses taken in the grammar school, or merely passed on examination, or not complying with the above requirements.*

The Regents' diplomas and supplementary pass cards of the University of the State of New York for the *five*-hour examinations will be received as covering the first, third, and fourth of the above groups, and for the three hour examinations in *both* Modern History I. and Modern History II. as covering the second of the above groups.†

Candidates for the B.A. degree must present Ancient History, the first of the above groups, and may, in addition, present

* In case of schools entitled to the certificate privilege, where any of the courses in history are such that they do not meet the above requirements, the teacher should give the student a detailed statement of the courses taken and of his grades, which statement will be considered in connection with such examination as may be deemed necessary to determine the amount of credit to be allowed. In no case will account be taken of a course in Greek History which does not extend at least to the death of Alexander (B. C. 323), or of a course in Roman History which does not extend at least to the death of Marcus Aurelius (A. D. 80). No account will be taken of any course of less than five periods for a half-year, or three periods for a year.

† No credit will be allowed for the *three*-hour examination in Ancient History. Temporarily, the three-hour examinations in the other subjects will be credited for a half-unit. No credit is given for Elementary United States History and Civics, or Civics, or Economics.

one or more of the other groups. Candidates for the B. S. degree must present at least one of the above groups, preferably the fourth (American History and Civil Government), and, in addition, may present one or more of the other groups.

MATHEMATICS.

1. ELEMENTARY ALGEBRA.

(*a*) Algebra to Quadratics. The four fundamental operations for rational algebraic expressions. Factoring, determination of highest common factor and lowest common multiple by factoring. Fractions, including complex fractions, and ratio and proportion. Linear equations, both numerical and literal, containing one or more unknown quantities. Problems depending on linear equations. Radicals, including the extraction of the square root of polynomials and of numbers. Exponents, including the fractional and negative.

(*b*) Quadratics and beyond. Quadratic equations, both numerical and literal. Simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations. Problems depending on quadratic equations. The binomial theorem for positive integral exponents. The formulas for the nth term and the sum of the terms of arithmetical and geometric progressions, with applications.

2. PLANE GEOMETRY.

The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons, and the measurement of the circle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of lines and plane surfaces.

3. SOLID GEOMETRY.

The usual theorems and constructions of good text-books, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of surfaces and solids.

4. ADVANCED ALGEBRA.

Permutations and combinations, limited to simple cases. Complex numbers, with graphical representation of sums and differences. Determinants, chiefly of the second, third, and fourth orders, including the use of minors and the solution of linear equations. Numerical equations of higher degree, and so much of the theory of equations, with graphical methods, as is necessary for their treatment, including Descartes' rule of signs and Horner's method, but not Sturm's functions or multiple roots.

5. PLANE TRIGONOMETRY.

Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles. Proofs of principal formulas, in particular for the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas. Solution of trigonometric equations of a simple character. Theory and use of logarithms (without the introduction of work involving infinite series). The solution of right and oblique triangles, and practical applications.

PHYSICS.

The course of instruction should include:

(1) The careful study of a standard text-book, for the purpose of obtaining a connected and comprehensive view of the subject.

(2) Lecture table demonstrations, mainly qualitative, illustrating important facts and phenomena and their practical applications.

(3) Individual laboratory work, consisting of experiments requiring at least the time of thirty double periods. The experiments performed by each student should number at least 30. They should be chiefly quantitative, and so chosen as to give a wide range of observation and practice. They should be neatly recorded in a suitable note-book, *indexed, and certified by the instructor.* This book should be deposited at the Secretary's office for examination, when the candidate presents himself for admission to college.

The above requirements are intended to be identical with those of the College Entrance Examination Board, as set forth in their Document No. 62. Teachers of physics are advised to consult this document for a valuable syllabus of topics and list of experiments.*

CHEMISTRY.

The requirements for admission in chemistry may be summarized as follows:

(1) Individual laboratory work, comprising at least forty experiments. The candidate who is examined in chemistry for admission to college must present his original note-book containing a record in his own words of the experiments, and of his observations and conclusions in connection with them. The note-book should include *an index of the experiments performed, and must be certified by the instructor.* It should be deposited for inspection at the Secretary's office at the time when the candidate presents himself for admission to college.

(2) Instruction by lecture table demonstrations, covering the more important facts and principles of chemistry.

(3) The thorough study of at least one standard text-book, for the acquisition of a comprehensive and connected view of the subject.

These requirements are intended to be identical with those of the College Entrance Examination Board. Teachers who desire to meet them should consult Document No. 62 of the Board.*

PHYSICAL GEOGRAPHY.

In physical geography, such a knowledge of the subject is required as may be gained from the study of the text-book of any one of the following authors: Salisbury, Tarr, Davis, Gilbert and Brigham, Hinman, Dryer, Hopkins, Geikie. Certificates in physical geography will not be accepted without examination, with credit of one half-unit, unless one of the text-books above mentioned has been used, and the time devoted to the study has been at least the equivalent of four exercises a week for a half-year. Certificates will not be

* Address College Entrance Examination Board, P. O. Sub-Station 84, New York City. The price of the document is ten cents.

accepted without examination, with credit of one unit, unless one of the text-books above mentioned has been used, supplemented by collateral reading or laboratory work, and the time devoted to the study has been at least the equivalent of four exercises a week for a year.

BIOLOGY.

Credit will be given in biology for either one-half unit or for one unit, according to the amount of time the student has given to the study. To obtain a credit of one unit, the student must have given to the study the equivalent of five hours a week for a year. Credit will be allowed for work in either botany or zoölogy, any of the modern text-books in these subjects being recognized as satisfactory. If the student desires credit for a unit in botany he is expected to have a knowledge of both structural and morphological botany, and to have a practical familiarity with the method of analyzing flowers and using analytical keys. In zoölogy a more thorough comprehension of the structure and classification of animals is expected if a unit credit is given than if only a half unit. In case a student has had an extended course in physiology, this may be accepted in place of botany.

SPECIAL COURSES.

Special students, not candidates for a degree, may be admitted, upon passing such examinations as the Faculty shall in each case prescribe. (See also page 30.)

GENERAL REGULATIONS CONCERNING ADMISSION.

ADVANCED STANDING.—All candidates for advanced standing must satisfy the Faculty of their proficiency in the preparatory studies, the required studies already pursued by the classes they propose to enter, and the proper quota of elective studies, or studies recognized as equivalents therefor. A certificate of standing in another college is not accepted as evidence of such

proficiency, without such further inquiry or examination as may be necessary in the judgment of the respective instructors.

PRELIMINARY EXAMINATIONS.—Preliminary examinations in any of the requirements for admission may be taken a year or more before entering college, and a candidate will receive credit for any subjects thus passed in advance.

DATE AND PLACE OF EXAMINATIONS.—Examinations for admission are held twice each year, in June and in September.

In June the entrance examinations of the college are those of the College Entrance Examination Board, of which Wesleyan University is a member. An application for the privilege of taking these examinations must be made to the Secretary of the College Entrance Examination Board, Post Office Sub-Station 84, New York, N. Y., from whom all necessary information regarding the June examinations can be obtained. These examinations will be held June 15–20, 1914, at a large number of widely distributed points, including Middletown.

Applications for examination at points in the United States east of the Mississippi River (also at Minneapolis, St. Louis, and other points on the Mississippi River) must be received by the Board on or before Monday, June 1, 1914; applications for examination elsewhere in the United States or in Canada must be received on or before Monday, May 25, 1914; and applications for examination at points outside of the United States and Canada must be received on or before Monday, May 11, 1914. In order to facilitate the making of arrangements for the proper conduct of the examinations, it is desired that all applications be filed as early as possible.

Each application filed in accordance with the foregoing requirements must be accompanied by the examination fee, which is $5.00 for candidates examined at points in the United States and Canada, and $15.00 for candidates examined at points outside the United States and Canada. This fee should be remitted by postal order, express order, or draft on New York, payable to the College Entrance Examination Board.

Applications received later than the dates named above will be accepted when it is practicable to arrange for the examination of the candidates concerned, but only upon the payment of $5.00 in addition to the regular fee. The blank forms necessary

for making this application may be obtained only from the Secretary of the College Entrance Examination Board.

The fees of candidates for examination in June, 1914, whose applications have been accepted by the Secretary, can under no circumstances be returned unless the request for their return is received on or before Monday, June 8, 1914.

A candidate for examination in two or more years will be required to pay the examination fee in each year.

The examinations in September will be conducted by the college, and no fees will be charged. They will be held only in Middletown. The date of the examination in 1914 will be September 16–17.

ADMISSION BY CERTIFICATE.—Certificates covering the foregoing requirements for admission to college are received from certain schools of good standing, which have been approved by the Faculty. A certificate will not be received unless it covers decidedly the major part of the requirements for admission.

No certificate will be received from any school in New England which has not been approved by the New England College Entrance Certificate Board, of which this college is a member. The Secretary of the Board is Professor Frank W. Nicolson, of Wesleyan University, Middletown, Conn., to whom applications from New England schools for the certificate privilege should be addressed. Such applications must reach the Secretary not later than April first, if approval is desired for the next academic year.

Certificates of the College Entrance Examination Board will be received in lieu of examination in the subjects which they cover.

Diplomas issued by the Regents of the University of the State of New York, and pass cards supplementary to such diplomas, will be received in lieu of examination in the subjects which they cover. Regents' certificates will also be received, provided they cover decidedly the major part of the requirements for admission.

Certificates from preparatory schools and Regents' diplomas are never accepted in lieu of examination for advanced standing.

Students entering by certificate are considered as on trial until the completion of the mid-year examinations. A student

admitted to college on certificate, who is dismissed during his Freshman year on account of inability to keep up with his class, must take examinations in all subjects required for admission, in case he desires to return to college.

Detailed information concerning admission by certificate may be obtained on application to the Secretary of the Faculty.

ADMISSION OF WOMEN.—Women were first admitted to the University in 1872. The Trustees voted, February 26, 1909, that no women should be admitted in any class later than that entering in 1909. Women may be admitted, however, as graduate students. The Trustees have adopted a resolution favoring the establishment of a coördinate college for women as soon as the necessary funds can be secured.

Satisfactory evidence of good moral character will be required in the case of all candidates for admission; and certificates of honorable dismissal will be required from those who have been members of other colleges.

COURSES OF INSTRUCTION.

For regulations concerning selection of studies, see page 101.

Bracketed courses are not given this year, but will, in most cases, be given next year.

The figures [1] and [2] following the number of a course indicate respectively that the course is offered for the first or the second half-year.

The Roman numerals in parentheses following each course indicate the examination group to which it is assigned. For table of groups, see pages 99 and 100.

The place of meeting of each course is indicated by means of the following abbreviations: F. H.=Fisk Hall; J. H.=Judd Hall; O. H.=Observatory Hall; S. L.=Scott Laboratory of Physics; CHEM. LAB., BIOL. LAB.=Chemical, Biological Laboratory.

An asterisk prefixed to the number of a course indicates that it can be elected only with the previous approval of the instructor; such approval must be *in writing* and must be handed in by the student *along with his list of electives.*

LATIN.

PROFESSORS HARRINGTON, NICOLSON, AND HEWITT.

Of the following courses in Latin, Courses I. and I.A are given every year, the remaining courses usually in alternate years only, the bracketed courses being omitted in 1913-14. Either Course I. in Latin or Course I. in Greek is required of all candidates for the degree of B. A. Course I.A should be elected in Freshman year by all students intending to pursue any further study of the classics. Courses II.-VI. are elective for those who have taken Course I. Courses I., I.A, two of Courses II.-V., and any one of Courses VI., XVI., and XVII. are required of candidates for preliminary honors in classics. Courses VII.-XXI. are intended primarily for those who have taken at least Course I. and two of Courses II.-V. But Courses XVI. and XX. may by special permission of the instructor be elected by those who have taken only Course I.; and students of marked ability in the reading of Latin, who are taking one of Courses II.-V., may be admitted to certain of the other courses at the same time by special permission of the instructor, to whom application should in each case be made.

I. LIVY,—Selections *(first half-year).* TERENCE,—Heauton Timoroumenos; PLAUTUS,—Mostellaria *(second half-year).* Exercises in sight translation throughout the year. SECTION

1, *Tu., Th., Sat., at 9;* SECTION 2, *Tu., Th., Sat., at 11;* SECTION 3, *Mon., Wed., Fri., at 9.* 31 F. H. PROFESSORS NICOLSON and HEWITT. (VIII.)

I.A. SUPPLEMENTARY COURSE. Training in rapid reading; practice in Latin composition. Occasional lectures throughout the year by the instructors in Latin, giving a preliminary survey of the various departments of classical study. *Wed., at 11.* 31 F. H. PROFESSOR NICOLSON. (IV.)

II.[1] CICERO,—Selected letters, to give a more intimate acquaintance with the history of Rome during the last two decades of the republic, and to compare colloquial with formal Latin. *Tu., Th., at 12 (first half-year).* 31 F. H. PROFESSOR HARRINGTON. (XI.)

III.[2] HORACE,—Odes and Epodes, to illustrate the lyric art of the Augustan age. *Tu., Th., at 12 (second half-year).* 31 F. H. PROFESSOR HARRINGTON. (XI.)

[IV.[1] HORACE,—Satires and Epistles, to illustrate the social and literary standards of Rome at the beginning of the empire. *Twice a week (first half-year).* PROFESSOR HARRINGTON.]

[V.[2] PLINY THE YOUNGER,—Selected letters, to illustrate especially the state of Roman society at the close of the first century after Christ. *Twice a week (second half-year).* PROFESSOR HARRINGTON.]

VI.[1] LATIN PROSE COMPOSITION. In this course the elementary principles of Latin style are studied and considerable amounts of English prose (dealing with subjects both ancient and modern) are translated into Latin. *Mon., Wed., at 10 (first half-year).* 31 F. H. PROFESSOR HARRINGTON. (III.)

[VII. RAPID READING. The aim in this course is to read large amounts of comparatively easy Latin, with a view to acquiring facility in the use of the language. The selections for the first half-year are from poetry (Vergil, Plautus, Terence); in the second half-year from prose (Caesar, Suetonius, Gellius). A considerable part of the reading is done outside of class, and tested by written recitations. *Twice a week.* PROFESSOR NICOLSON.]

VIII. ROMAN LITERATURE. A historical and critical survey of Roman literature given by means of lectures, a text-book dealing with the general subject, illustrative class-room readings in Latin and in English translations, and a choice of several collateral reading courses covering different periods. This course is designed primarily for students who desire a wider general acquaintance with the literature of the Romans and its relation to other literatures, without special emphasis upon its distinctly philological features. *Mon., Wed., at 9 (counting as three times a week).* 37 F. H. PROFESSOR HARRINGTON. (II.)

IX. ROMAN ELEGIAC POETRY. The origin and development of the elegiac form. Selections from Catullus, Tibullus, Propertius, and Ovid. Practice in original research. Seminar methods are employed. *Tu., Th., at 9.* 32 F. H. PROFESSOR HARRINGTON. (VIII.)

X.[1] OVID,—the Fasti, with special attention to questions of Roman history and ritual. *Mon., Fri., at 10 (first half-year).* 31 F. H. PROFESSOR NICOLSON. (III.)

XI.[1] ROMAN SATIRE. From its beginnings through the Golden Age. Selections from Ennius, Lucilius, Varro, Horace, and Persius. *Tu., Th., at 11 (first half-year).* 30 F. H. PROFESSOR HARRINGTON. (X.)

XII.[2] ROMAN SATIRE. A continuation of Course XI. Selections from Juvenal, Petronius, and Apuleius; the Apocolocyntosis of Seneca; lectures on the earliest forms of the novel. *Mon., Fri., at 10 (second half-year).* 31 F. H. PROFESSOR NICOLSON. (III.)

[XIII. ROMAN PHILOSOPHY. Lucretius (selections); Cicero (selections from the Academica, De Officiis, Tusculanae Disputationes, De Finibus, De Natura Deorum); Seneca (selected essays and epistles); lectures on the development of Roman philosophy. *Three times a week.* PROFESSOR HARRINGTON.]

[XIV.[2] TACITUS. Selections from the Annals I.–VI., designed to illustrate the author's conception of the character of Tiberius, and of the upbuilding of the principate. *Twice a week (second half-year).* PROFESSOR HEWITT.]

XV.[1] CATULLUS. The beginnings of lyric poetry among the Romans, with a brief study of its later development and of lyric forms in post-classical and mediaeval Latin. *Mon., Wed., at 12 (first half-year).* 37 F. H. PROFESSOR HARRINGTON. (V.)

[XVI.[1] ROMAN PRIVATE LIFE AND SOCIAL INSTITUTIONS. A course of lectures, illustrated by photographs, engravings, and lantern slides, and requiring some collateral study of original and of secondary authorities, and the careful preparation of note-books. *Three times a week (first half-year).* PROFESSOR HARRINGTON.]

[XVII.[2] HISTORICAL LATIN GRAMMAR. Lectures on the historical development of Latin grammar, as regards both forms and syntax, with illustrative readings in inscriptions and in early Roman literature. *Three times a week (second half-year).* PROFESSOR HARRINGTON.]

XVIII.[1] LATIN EPIGRAPHY. An introductory course, with special attention to inscriptions of historical interest. The course is prefaced by a brief survey of the general classes and formal characteristics of Latin inscriptions, based upon Egbert's Introduction. *Twice a week (first half-year), the hours to be determined.* 32 F. H. PROFESSOR HARRINGTON.

XIX.[2] ROMAN TOPOGRAPHY AND PUBLIC BUILDINGS. A course of lectures, illustrated by photographs, engravings, and lantern slides, and requiring some collateral study of original and of secondary authorities, and the careful preparation of note-books. *Twice a week (second half-year), the hours to be determined.* 32 F. H. PROFESSOR HARRINGTON.

XX.[2] ROMAN POLITICAL INSTITUTIONS AND LAW. An introductory course, based partly on original, and partly on modern authorities, given by lectures and the use of text-books. *Tu., Th., at 11 (second half-year).* 32 F. H. PROFESSOR HARRINGTON. (X.)

XXI.[2] LATIN LITERATURE SINCE THE ROMAN EMPIRE. Lectures introductory to the literature written in the universal language of the ecclesiastical and learned European world from

the fifth century to the seventeenth century. Illustrative readings from some of the most interesting types of prose and poetry, including the novel, the drama, the dialogue, the lyric, the writings of the Church Fathers. *Mon., Wed., at 12 (second half-year).* 31 F. H. PROFESSOR HARRINGTON. (V.)

For the most successful prosecution of even the earlier courses in Latin, ability to read German prose on philological subjects is decidedly advantageous, and for the most advanced courses it is generally necessary. Students, therefore, who look forward to the study of Latin beyond the more elementary courses, and who have on admission to college no acquaintance with German, should devote special attention to that subject in the Freshman year.

GREEK.

PROFESSORS HEIDEL AND HEWITT.

[A. BEGINNERS' COURSE. Grammar and exercises; Xenophon,—Anabasis. *Three times a week.* PROFESSOR HEWITT.] (III.)

Credit for Course A is given only to students who attain in it a grade of three or above and subsequently pass Course B and Course I. in Greek. Course A is omitted in 1913–14.

B. HOMER,—Odyssey. *Th., at 8.* 37 F. H. PROFESSOR HEWITT. (VII.)

Course B is intended for students who have taken Course A or its equivalent.

I. XENOPHON,—Memorabilia; PLATO,—Euthyphro, Apology, and Crito; HERODOTUS,—Selections. *Tu., Th., Fri., at 11.* 39 F. H. PROFESSOR HEIDEL. (III.)

Course I. is intended for students who have completed the entrance requirements in Greek, or Courses A and B. It may, however, be taken by those who have completed only Course A, or its equivalent, provided that they have attained a grade of three or above and are taking Course B.

Course I. in Greek, or Course I. in Latin, is required of candidates for the B. A. degree. Course I. is required of candidates for preliminary honors in classics.

II. ATTIC ORATORS *(first half-year)*. EURIPIDES,—Alcestis; ARISTOPHANES,—Clouds *(second half-year)*. *Wed., Fri., at 8.* 31 F. H. PROFESSOR HEWITT. (I.)

Course II. is elective for those who have taken Course I. It is required of candidates for preliminary honors in classics.

[III.[1] GREEK PROSE COMPOSITION. *Twice a week (first half-year)*. PROFESSOR HEIDEL.]

Course III. is elective for those who take, or have taken, Course II. Either Course III. or Course IV. is required of candidates for preliminary honors in classics. Courses III. and IV. are given in alternate years, Course III. being omitted in 1913–14.

IV. HISTORY OF GREEK LITERATURE. Recitations, lectures, and collateral reading are supplemented by a more intensive study of selected portions of the literature. Especial stress is laid upon the relation between the Greek and English literatures, with respect both to literary form and to subject matter. Knowledge of Greek is not required. *Tu., Th., at* 11. 37 F. H. PROFESSOR HEWITT. (X.)

Course IV. is elective for Juniors, or for Sophomores who are taking Course II. Either Course III. or Course IV. is required of candidates for preliminary honors in classics.

[V.[1] PLATO,—Gorgias; DEMOSTHENES,—The Oration on the Crown. Collateral study of Greek rhetoric and oratory. *Three times a week (first half-year)*. PROFESSOR HEIDEL.]

[VI.[2] THE GREEK LYRIC POETS, — including selections from Pindar and Bacchylides. *Three times a week (second half-year)*. PROFESSOR HEIDEL.]

Courses V. and VI. are elective for those who have taken Course II. They are omitted in 1913–14.

VII. AESCHYLUS, — Prometheus Bound. SOPHOCLES, — Oedipus the King, and Antigone. Lectures and collateral reading on the Greek theatre *(first half-year)*. EURIPIDES,— Iphigenia among the Taurians, and Cyclops. ARISTOPHANES, —Frogs. Collateral reading on the Greek drama *(second half-year)*. *Mon., Wed., Fri., at 8.* 37 F. H. PROFESSOR HEIDEL. (I.)

Course VII. is elective for those who have taken Course II.

VIII.[1] NEW TESTAMENT IN GREEK. *Tu., Th., at 3 (first half-year).* PROFESSOR HEWITT. (XII.)

Course VIII. is elective for those who take, or have taken, Course II.

[IX.[2] THEOCRITUS AND LUCIAN. *Twice a week (second half-year).* PROFESSOR HEIDEL.]

Course IX. is elective for those who have taken Course II. It is omitted in 1913–14.

[X. GREEK CIVILIZATION. Lectures and collateral reading on the political institutions, the art, religion, and scientific thought of ancient Greece in relation to modern civilization. Knowledge of Greek is not required. *Three times a week.* PROFESSOR HEIDEL.]

Course X. is elective for Juniors. It is omitted in 1913–14.

XI.[1] PLATO,—Republic. *Tu., Th., at 10; Wed., at 2 (first half-year).* 37 F. H. PROFESSOR HEIDEL. (IX.)

XII.[2] GREEK LITERARY CRITICISM. Aristotle's Poetics, the treatise On the Sublime, and selections from Dionysius of Halicarnassus. *Tu., Th., at 10; Wed., at 2 (second half-year).* 37 F. H. PROFESSOR HEIDEL. (IX.)

Courses XI. and XII. are elective for those who have taken Courses V. and VI., or Course VII.

HEBREW.†

ELEMENTARY COURSE. Davidson's Grammar. The verbal and nominal forms and the elements of syntax are thoroughly mastered. Careful attention is given to the acquisition of a practical, working vocabulary. Short sentences in Hebrew are read with every lesson, accompanied by exercises in Hebrew composition *(first half-year).* Kittel's Hebrew Bible. The Brown, Driver, and Briggs Hebrew Lexicon. Selections from Genesis. The Book of Ruth. Sight reading *(second half-year). Mon., Tu., Th., Fri., at 12.* Berkeley Divinity School. MR. VANDERBOGART.

† Students may receive credit for work in this department pursued at the Berkeley Divinity School.

GERMAN.

PROFESSOR FIFE; ASSOCIATE PROFESSOR CURTS.

I. ELEMENTARY GERMAN. Bagster-Collins,—First Book in German; Walter and Krause,—First German Reader; Gerstaecker,—Irrfahrten; Wilbrandt,—Jugendliebe; Wildenbruch,—Neid. Exercises in conversation and composition, based on the texts read and on an elementary manual. SECTION 1, *Mon., Wed., Fri., at 11;* SECTION 2, *Tu., Th., Sat., at 11.* 11 F. H. ASSOCIATE PROFESSOR CURTS. (X.)

Candidates for the degree of B. S. are required to complete the equivalent of I. and II. German, as well as I. and II. French. Such of these courses as they have not pursued and passed in before entering college, they must take as soon as practicable after entering.

II. A. INTERMEDIATE GERMAN. Heine,—Die Harzreise; Schiller,—Wilhelm Tell; Keller,—Romeo und Julia auf dem Dorfe; Mogk-Fossler,—Deutsche Sitten und Bräuche. A part of this reading is done at sight. The course includes a review of elementary grammar, with paraphrases and prose composition. Bierwirth's Elements of German. Pope's German Composition. *Tu., Th., Sat., at 8.* 11 F. H. PROFESSOR FIFE. (VII.)

Course II. A is elective for those who have taken Course I. in college.

II. B. INTERMEDIATE GERMAN. Wildenbruch, — Der Letzte; Schiller,—Die Jungfrau von Orleans; Heine,—Die Harzreise; Loening-Arndt,—Deutsche Wirtschaft. A review of elementary grammar, with paraphrases and prose composition. A considerable part of the class exercises are conducted in German. Bierwirth's Elements of German. Pope's Writing and Speaking German. *Mon., Wed., Fri., at 12.* 11 F. H. ASSOCIATE PROFESSOR CURTS. (V.)

Course II. B is elective for those who have completed the entrance requirements in elementary German.

*III. GERMAN DAILY LIFE AND INSTITUTIONS. The aim of this course is to train the student in familiar and colloquial German in speech and writing, at the same time introducing

him to some of the more familiar German public and private institutions. Practice is based in part on Metzger and Mueller's Kreuz und Quer in Deutschland, Schrakamp's Deutsche Heimat and Einhart's Deutsche Geschichte, with the use of Perthes' Taschenatlas vom deutschen Reich. Lectures and pictures illustrating German life and institutions. All class exercises are conducted in German. *Tu., Th., at 12.* 39 F. H. PROFESSOR FIFE. (XI.)

Course III. is elective, with the permission of the instructor, for those who have taken Courses I. and II.A or II.B.

IV. THE CLASSICAL PERIOD. Lessing, Goethe, and Schiller are taken up in the order named, and a brief study is made of the life of each, based on lectures, accompanied by parallel readings from their works. Regular written themes form a part of the course. During the year 1913–14 the following are read in class: Lessing,—Emilia Galotti; Goethe,—Egmont, Faust I.; Schiller,—Don Karlos, Ballads. *Tu., Th., Sat., at 9.* 39 F. H. PROFESSOR FIFE. (VIII.)

Course IV. is elective for those who have taken Courses I. and II.A or II.B.

[V.[1] NINETEENTH CENTURY DRAMA. Rapid readings from dramatic masterpieces by Kleist, Grillparzer, Hebbel, Ludwig, Hauptmann, and Sudermann, with lectures on the development of the German drama in the nineteenth century, and written themes. *Three times a week (first half-year).* ASSOCIATE PROFESSOR CURTS.]

VI.[1] THE GERMAN NOVELLE. The development of this peculiarly German form of narrative literature is traced from the Romantic period through the nineteenth century. Rapid readings from E. T. A. Hoffmann, Eichendorff, Mörike, Keller, Storm, Heyse, K. F. Meyer, and Rosegger. A part of this reading is done outside of class and is made the subject of written themes. *Mon., Wed., Fri., at 2 (first half-year).* 39 F. H. ASSOCIATE PROFESSOR CURTS.

[VII.[2] CONTEMPORARY GERMAN LITERATURE (from 1880 to 1910). A study of the main currents of present-day literature with reference to modern culture and social conditions in

contemporary Germany. Lectures and rapid readings from some of the most important dramatists and lyric poets, such as Sudermann, Hauptmann, Otto Ernst, Wildenbruch, Liliencron, and Hugo von Hoffmannsthal. Written themes. *Three times a week (second half-year).* ASSOCIATE PROFESSOR CURTS.]

VIII.[2] HISTORICAL AND CRITICAL PROSE. Rapid readings in contemporary German historians and essayists. The course is designed as a further introduction to German culture, as well as an aid to those who desire greater proficiency in reading contemporary German prose. *Mon., Wed., Fri., at 2 (second half-year).* 39 F. H. ASSOCIATE PROFESSOR CURTS.

Courses V., VI., VII., and VIII., each of which is given in alternate years only, are elective for those who have taken Courses I. and II. A or II. B. Courses V. and VII. are omitted in 1913–14.

[*IX.[1] GERMAN PROSE COMPOSITION AND ADVANCED GRAMMAR. This course begins with an intensive review of the elementary phonology and forms of the language, followed by a study of German syntax, and an introduction to historical grammar. Regular class exercises in German prose composition, supplemented by original themes. This course is intended especially for those preparing to teach German. *Twice a week (first half-year).* PROFESSOR FIFE.]

Course IX. is elective, with the permission of the instructor, for those who have taken Courses I., II. A or II. B, and III.

X.[2] HISTORY OF GERMAN LITERATURE, I. From the earliest beginnings to the end of the sixteenth century. A course of lectures, supplemented by parallel readings from an anthology and by themes. All lectures and class exercises are conducted in German. *Mon., Wed., Fri., at 9 (second half-year).* 39 F. H. PROFESSOR FIFE. (II.)

[XI.[2] HISTORY OF GERMAN LITERATURE, II. From the beginning of the seventeenth century to the present time. A course of lectures, supplemented by parallel readings from an anthology and by themes. All lectures and class exercises are

conducted in German. *Three times a week (second half-year).* PROFESSOR FIFE.]

Courses X. and XI., which are given in alternate years, are elective for those who have taken Courses I. and II. A or II. B, and who take, or have taken, Course III. Course XI. is omitted in 1913–14.

XII.[1] MIDDLE HIGH GERMAN. The course is a brief introduction to the early classical period, and is literary rather than linguistic in its aims. Wright's Middle High German Primer. Readings from Hartmann von Aue's Der arme Heinrich, the Nibelungenlied and Walther von der Vogelweide. *Wed., Fri., at 9 (first half-year).* 36 F. H. PROFESSOR FIFE. (II.)

Course XII. is elective for those who have taken Courses I., II. A or II. B, and III., or their equivalent.

GRADUATE INSTRUCTION.

Courses IX.–XII. are intended as an introduction to graduate work, and may, with additional requirements, be taken as graduate courses. Further graduate instruction may be arranged for through private conference.

ROMANCE LANGUAGES.

PROFESSOR KUHNS; ASSOCIATE PROFESSOR MANN.

I. FRENCH. Fraser and Squair's French Grammar, Part I. Kuhns's French Reading for Beginners. Erckmann-Chatrian, —Madame Thérèse; Laurie,—Une Année de Collège à Paris. Part of this reading is done at sight. There is also personal drill in pronunciation. SECTION 1, *Mon., Wed., Fri., at 10.* 11 F. H. SECTION 2, *Tu., Th., Sat., at 11.* 14 F. H. ASSOCIATE PROFESSOR MANN. (III.)

Candidates for the degree of B. S. must complete the equivalent of Courses I. and II. in French, as well as I. and II. in German. Such of these courses as they have not pursued and passed in before entering college, they must take as soon as practicable after entering.

II. FRENCH. Fraser and Squair's French Grammar, Part II. This course has for its main object the study of advanced grammar and composition, in connection with the reading of a large amount of French. Special attention is paid to sight-reading in class, and for each half-year collateral reading is given, to be prepared by the student himself for examination. On Tuesdays Duval's Histoire de la Littérature Française is read and is supplemented by informal lectures. SECTION 1, *Tu., Th., Sat., at 8.* 14 F. H. SECTION 2, *Tu., at 8.* 39 F. H. *Wed., Fri., at 9.* 15 F. H. PROFESSOR KUHNS and ASSOCIATE PROFESSOR MANN. (VII.)

Course II. is elective for those who have taken Course I.

*III.[1] FRENCH CONVERSATION. The object of this course is to give practice in writing, speaking, and hearing French. During the year several informal lectures on travel in Europe are given in French. These lectures are illustrated by lantern slides. *Mon., Wed., at 8 (first half-year).* 39 F. H. PROFESSOR KUHNS. (I.)

Course III. is elective, with the permission of the instructor, for those who take, or have taken, Course II.

*IV.[1] FRENCH. French literature in the seventeenth, eighteenth, and nineteenth centuries. The masterpieces of Corneille, Racine, Molière, Boileau, La Fontaine, Rousseau, Chateaubriand, Lamartine, Alfred de Musset, Victor Hugo, Balzac, and others are read and discussed in French, but not translated. Frequent lectures are given by the instructor on the general state of literature in France in the seventeenth, eighteenth, and nineteenth centuries. At each recitation translation from English into French is made. In addition, each member of the class must make, twice during the year, a more extensive study of some one particular writer. The class exercises are largely conducted in French. *Mon., Wed., Fri., at 10 (first half-year).* 39 F. H. PROFESSOR KUHNS. (III.)

Course IV. is elective, with the permission of the instructor, for those who take, or have taken, Course III.

[V. OLD FRENCH. The work consists in the translation of Old French texts, and the study of Old French literature,

with special reference to its influence on the literatures of the other nations of Western Europe. Lectures, collateral readings, and reports form part of the work. *Once a week.* PROFESSOR KUHNS.]

Course V. is elective for those who have taken Courses I.–IV. It is omitted in 1913–14.

*VI.[1] FRENCH. This course is especially designed to meet the needs of those who intend to teach French. It includes the study of grammar and composition, phonetics of French pronunciation, methods of teaching, bibliography, and other appropriate topics. All class exercises are conducted in French. *Tu., Th., at 9 (first half-year).* 36 F. H. PROFESSOR KUHNS. (VIII.)

Course VI. is elective, with the permission of the instructor, for those who have taken Courses I.–IV.

[VII. ELEMENTARY ITALIAN. Grandgent's Italian Grammar. De Amicis, Cuore; Manzoni, I Promessi Sposi; Fogazzaro, Pereat Rochus; Guida degli Stati Uniti per l'Immigrante Italiano. In addition to the regular work by the class in translating modern prose, the instructor translates and interprets to the class the Inferno and the Purgatorio of Dante, a portion of each recitation being devoted to this exercise. As a preparation for this part of the work, the class is required to read Gardner's Dante (in Temple Primers). *Twice a week.* PROFESSOR KUHNS.]

Course VII. is elective for Sophomores who have taken I. French. It is omitted in 1913–14.

[VIII. ADVANCED ITALIAN. Dante, Petrarch, Tasso, Ariosto. Lectures on the history of Italian literature. *Twice a week.* PROFESSOR KUHNS.]

Course VIII. is elective for those who have taken Course VII. It is omitted in 1913–14.

IX.[1] DANTE IN ENGLISH. The New Life and the Divine Comedy are read in English translations. The instructor interprets these books in the light of the history, science, theology, and philosophy of the Middle Ages, comparing Dante with

Homer, Shakespeare, and other world-poets, and showing his influence on modern thought, art, and literature. *Tu., Th., at 10 (first half-year).* 39 F. H. PROFESSOR KUHNS. (IX.)

Course IX. is elective for Juniors.

[X. ELEMENTARY SPANISH. Grammar, and reading of simple Spanish prose. *Twice a week.* ASSOCIATE PROFESSOR MANN.]

Course X. is elective for Sophomores who have taken I. French. It is omitted in 1913–14.

XI. ADVANCED SPANISH. A course in Spanish literature, with especial emphasis on the chief writers. *Tu., Th., at 12.* 36 F. H. ASSOCIATE PROFESSOR MANN. (XI.)

Course XI. is elective for those who have taken Course X.

GRADUATE INSTRUCTION.

Course V. is designed for graduate students, but is elective for undergraduates.

ENGLISH LITERATURE.

PROFESSOR WINCHESTER; ASSOCIATE PROFESSOR GILLET.

I. GENERAL INTRODUCTION TO ENGLISH LITERATURE. An outline of the history of the literature, with class-room reading and discussion of representative works illustrative of different varieties and periods of English Literature. Newcomer's History of English Literature is used as a text-book, with Cunliffe, Pyre and Young's Century Readings for a Course in English Literature. SECTION 1, *Mon., Wed., Fri., at 12.* SECTION 2, *Mon., at 12; Wed., Fri., at 8.* SECTION 3, *Mon., at 12; Tu., Th., at 11.* 14 F. H. (sections in 12 F. H.). PROFESSOR WINCHESTER and ASSOCIATE PROFESSOR GILLET. (V.)

Course I. is elective for Sophomores.

[II. SIX PLAYS OF SHAKESPEARE. *Three times a week.* PROFESSOR WINCHESTER.]

III. ENGLISH POETRY, 1789–1832. Burns, Wordsworth, Coleridge, Scott, Byron, Shelley, Keats. *Mon., Wed., Fri., at 9.* 14 F. H. PROFESSOR WINCHESTER. (II.)

Courses II. and III. are elective for those who have taken Course I. Course II. is omitted in 1913–14.

*IV. ENGLISH LITERATURE OF THE VICTORIAN PERIOD. Carlyle, Ruskin, Arnold, Tennyson, Browning. *Mon., Wed., at 11.* 23 F. H. PROFESSOR WINCHESTER. (IV.)

[*V. LITERATURE OF THE PERIOD OF QUEEN ANNE. Defoe, Steele, Addison, Swift, Bolingbroke, Pope. *Twice a week.* PROFESSOR WINCHESTER.]

[*VI. ESSAYISTS AND REVIEWERS OF THE EARLY NINETEENTH CENTURY. Jeffrey, Hazlitt, De Quincey, Lamb, Wilson, Hunt. *Twice a week.* PROFESSOR WINCHESTER.]

[*VII. NEW ENGLAND LITERATURE, 1835–1885. Emerson, Longfellow, Lowell, Hawthorne, Whittier, Holmes. *Twice a week.* PROFESSOR WINCHESTER.]

Courses IV., V., VI., and VII. are elective, with the permission of the instructor, for those who have taken Course I., either Course II. or Course III., and Course VIII. Courses V. VI., and VII. are omitted in 1913–14.

VIII. ELEMENTS OF LITERARY CRITICISM. Discussion of the essential elements and the various forms of literature, with practical exercises in the application of critical principles. Winchester's Principles of Literary Criticism is used as a text-book. *Fri., at 11.* 14 F. H. PROFESSOR WINCHESTER. (IV.)

Course VIII. is elective for those who have taken Course I.

IX. LITERATURE OF THE LATTER HALF OF THE NINETEENTH CENTURY. Stevenson, Newman, Arnold, Rossetti, Morris, Swinburne, and Meredith. *Mon., Wed., Fri., at 10.* 12 F. H. ASSOCIATE PROFESSOR GILLET. (III.)

Course IX. is elective for those who have taken Course I. and one other course in the department, or by special permission of the instructor.

A course in Public Speaking, elective for Seniors, is given in 1913–14 under the direction of Professor Winchester and Mr. Wetzel. (See page 66.)

GRADUATE INSTRUCTION.

Special provision for graduate instruction is made to meet the wants of individual students.

ENGLISH LANGUAGE.

PROFESSOR MEAD; ASSOCIATE PROFESSOR CONLEY.

I. ENGLISH COMPOSITION. A. Rhetoric. Text-books: Canby's English Composition in Theory and Practice; Woolley's Handbook of Composition. The members of the class are required to write numerous exercises and themes illustrating and applying the principles laid down in the text-books. These exercises and themes are discussed and criticised in the class-room, and also at hours appointed by the instructor.

B. Reading. Exemplary and illustrative readings are studied and furnish models for practice in the various types of writing. SECTION 1, *Wed., Fri., at 8.* 29 F. H. SECTION 2, *Tu., Th., at 10.* 29 F. H. SECTION 3, *Tu., Th., at 11.* 11 F. H. SECTION 4, *Mon., Fri., at 11.* 29 F. H. ASSOCIATE PROFESSOR CONLEY. (IV.)

Course I. is required of Freshmen. It counts as *three hours* a week for the year.

II. ENGLISH COMPOSITION. Sophomores are required to write six essays during the year on subjects approved by the instructor. All the written work receives the personal attention of the instructor, and appointments for individual criticism are made for each member of the class. All essays are required to conform in details to the precepts laid down in Woolley's Handbook of Composition. PROFESSOR MEAD.

The essays of Sophomore year are rated as the equivalent of one hour's work per week for the year; this hour is included in the minimum quota (15) prescribed for the year.

III. ADVANCED ENGLISH COMPOSITION. A study of various types of composition, with constant practice in theme-writing. The written work is criticised in the class-room, and also at hours appointed by the instructor for personal conference. Wednesday at 3 is reserved for criticism. All papers notably deficient in structure or style are required to be rewritten. *Mon., at 3 (counting as two hours).* 29 F. H. PROFESSOR MEAD. (VI.)

Course III. is elective for Juniors.

[IV. OLD ENGLISH (Anglo-Saxon). This course is fundamental to the study of the English language and Early English literature. The principal reading at the outset is in the Gospel of St. John. The grammar is drawn from Bright's Anglo-Saxon Reader, with copious illustrations and explanations based upon the texts read. In the second half-year the reading is mainly in Old English poetry and in prose illustrating important periods of Old English history. A lecture once a week, with a reading of Skeat's Primer of English Etymology, explains the relations of the Old English language to modern English and outlines the main features of Old English civilization. *Three times a week.* PROFESSOR MEAD.]

Course IV. is elective for Juniors, and, with the permission of the instructor, for Sophomores. It is omitted in 1913–14.

V. THE AGE OF CHAUCER. A study of fourteenth century literary and social life as reflected in Chaucer's Canterbury Tales, Piers the Plowman, and the verse romances. Lectures discussing typical aspects of social, religious, industrial, and court life, with assigned readings, and class discussions. *Wed., Fri., at 12.* 29 F. H. PROFESSOR MEAD. (V.)

Course V. is elective for Juniors.

VI. HISTORY OF THE ENGLISH LANGUAGE. The aim of this course is to show in lectures and class discussions how English life and culture are illustrated by changes in the meaning of words since the Norman Conquest. Special attention is given to the formation of a working English vocabulary. As far as possible the work is brought into connection with the study of literature. The collateral work involves the use

of various books of reference, and in particular of Krapp's Modern English, Trench's English Past and Present, and Skeat's Concise Etymological Dictionary. *Tu., Th., at 11.* 29 F. H. PROFESSOR MEAD. (X.)

Course VI. is elective for Juniors.

VII. ARTHURIAN ROMANCES. The sources and history of the Arthurian Romances. Class readings in some of the better known forms of Arthurian story, such as Tennyson's Idylls of the King, Swinburne's Tale of Balen, and their sources, and lectures on the older literature that furnished material to Tennyson and other modern poets. The social conditions out of which the romances grew receive special attention. *Tu., Th., at 12.* 29 F. H. PROFESSOR MEAD. (XI.)

Course VII. is elective for Juniors.

[VIII. ENGLISH FICTION. The historical development of the novel, with a brief introductory study of the theory of narrative composition. Perry,—A Study of Prose Fiction; Cross,—Development of the English Novel. Lectures, assigned readings, class papers, and discussions. PROFESSOR MEAD.]

Course VIII. is elective for Juniors. It is omitted in 1913–14.

PUBLIC SPEAKING.

MR. WETZEL.

PUBLIC SPEAKING. Instruction in the course in public speaking is given in three sections, one for each of the three upper classes. The courses are so arranged as to give the student a systematic and progressive course of training in the art of oral expression and delivery. Special training is provided for those who enter the various contests in public speaking.

A. SOPHOMORES. Special attention is given to vocal training, articulation, and pronunciation. This course includes systematic practice in oral expression and delivery, with special reference to the principles of gesture and to the fundamental characteristics of expression, viz.: pause, touch, change of pitch, inflection, movement, and tone-color. *Sat., at 11.* 13 F. H.

B. JUNIORS. Argumentation and Debate. Lectures on the principles of debate, the laws of argumentation, and the art of debate. Study of selected models. Regular debates before the class on leading questions, for criticism on arrangement and presentation of arguments. *Sat., at 10.* 13 F. H.

Course B is elective for those who have shown efficiency in Course A, or who have been on university debating teams.

C. SENIORS. A course in the composition and delivery of the different forms of public address. The student is required to deliver one original speech before the class each month. These are criticised by Professor Winchester before being delivered. *Sat., at 9.* 13 F. H.

These courses meet once a week for twenty weeks. Courses A and B count half an hour, Course C one hour, for the year.

HISTORY.

PROFESSOR DUTCHER; MR. SENNING.

I. ENGLISH HISTORY. The History of England from the earliest times to the present day. Tout's Advanced History of Great Britain is used as the text-book, and there is required, in addition, the reading of Wakeman's Introduction to the History of the Church of England, Cheyney's Introduction to the Industrial and Social History of England, Montague's Elements of English Constitutional History, and a few selections from Adams and Stephens's Select Documents of English Constitutional History. Lectures and recitations. *Mon., Wed., Fri., at 8.* 15 F. H. PROFESSOR DUTCHER. (I.)

Course I. is elective for Freshmen who have credit for one unit in history on admission. This course is the only one in the second required group of studies (see p. 102) open to Freshmen. Owing to its elementary character this course should be elected not later than the Sophomore year. Course I., or its equivalent, is prerequisite to the advanced courses in history.

Students electing history as their major study must take Course I. not later than the Sophomore year. Students may then elect to make their major work in either American or

European history, and must complete the twelve hours required for a major in this department from either Courses II.–V., or Courses VII.–IX.

[II. HISTORY OF THE EXPANSION OF EUROPE. First semester: Portuguese, Spanish, French, Dutch, and English exploration, trade, and colonization in America, Africa, and Asia from the time of Henry the Navigator to the middle of the eighteenth century, with special attention to the administrative systems, the regulation of trade and industry, the treatment of weaker races, the activities of Christian missionaries, and similar problems. Second semester: a similar study of the period since the middle of the eighteenth century, with special reference to the English in India, Canada, Australia, and South Africa, to the Dutch in the East Indies, to the liberation of South America, and to the partition of Africa. Lectures, recitations, and essays. *Three times a week.* PROFESSOR DUTCHER.]

Course II. is elective for those who have taken, or are taking, Course V. It is omitted in 1913–14, but will probably be given in 1914–15.

III. ANCIENT HISTORY. First semester: after a brief survey of the earliest times, the history of Greece from the beginning of the Persian wars, and of Rome from the beginning of the Punic wars, is carried to 146 B. C. Second semester: the history of the Roman republic from 146 B. C., of the Roman empire, and of the so-called Dark Ages to the death of Charles the Great, 814 A. D., with special attention to the rise of Christianity and of Mohammedanism. Botsford's History of the Ancient World, supplemented by other books on special periods. Lectures, recitations, and essays. *Mon., Wed., Fri., at 10.* 15 F. H. PROFESSOR DUTCHER. (III.)

Course III. is elective for Sophomores who have attained a grade of three in Course I., and for Juniors and Seniors who have taken any three-hour course in history or at least five hours of Greek or five hours of Latin. By special permission of the instructor, either semester may be elected separately, though it is strongly advised that the course be taken as a whole.

In addition to Course III., students are referred to certain supplementary courses offered by the departments of Latin and Greek. In addition to the various courses in which historical texts and materials are read, there are the following courses devoted primarily to the study of the life, institutions, and culture of the Greeks and Romans: VIII. Latin (Roman Literature), XVI. Latin (Roman Private Life and Social Institutions), XIX. Latin (Roman Topography and Public Buildings), and IV. Greek (History of Greek Literature); but XX. Latin (Roman Political Institutions and Law) and X. Greek (Greek Civilization) are especially recommended.

[IV. MEDIAEVAL HISTORY. First semester: from the death of Charles the Great, 814 A. D., to the close of the Hundred Years' War and the fall of Constantinople, 1453, with the Empire, the Papacy, and France as the central factors, and with special attention to feudalism, the crusades, the rise of the towns, the development of culture and of the vernacular literatures, and the rise of the universities. Second semester: the Renaissance, the age of discovery, the Protestant Reformation, the Counter-Reformation, and the wars of religion, to the treaties of Westphalia, covering approximately from 1453 to 1660. Hassall's Periods of European History, volumes 1–5. Lectures, recitations, and essays. *Three times a week.* PROFESSOR DUTCHER.]

Course IV. is elective for Sophomores who have attained a grade of three in Course I., and for Juniors and Seniors who have taken any three-hour course in history. Courses III. and IV. are given in alternate years, Course IV. being omitted in 1913–14.

V. MODERN EUROPEAN HISTORY. First semester: the age of Louis XIV., the rise of Russia and of Prussia, the enlightened despotism, and the French Revolution, covering from about 1660 to the close of the National Convention in 1795. Second semester: the Napoleonic era, the Holy Alliance, the revolutionary movements, the development of constitutional government, the unification of Germany and of Italy, with some review of the more important events and movements since 1870. Stephens's Syllabus of Modern European History, and Hassall's

Periods of European History, volumes 5–8. Lectures, recitations, and essays. *Mon., Wed., Fri., at 12.* 15 F. H. PROFESSOR DUTCHER. (V.)

Course V. is elective for Sophomores who have attained a grade of three in Course I., and for Juniors and Seniors who have taken any three-hour course in history. It may be omitted in 1914–15.

For Courses II.–V., ability to read at least one modern language besides English is almost indispensable.

*VI. HISTORY SEMINARY. During the year 1913–14, special topics in European history during the Napoleonic period are studied. This course is intended to afford training in historical method. Topics for individual research and report are regularly assigned and the work of the student is subject to the constant supervision and criticism of the instructor. At the close of the year, each student is required, as a test of his ability to do historical research and to present his results in a correct and lucid manner, to prepare an essay or thesis of considerable length upon some topic studied in the course. *Wed., 7–10 p. m. (first and second terms), counting as two hours for the year.* 10 F. H. PROFESSOR DUTCHER.

Course VI. is elective, with the permission of the instructor, for Seniors who have shown, in earlier courses in the department, ability to do advanced work in history. For the year 1913–14, permission is given only to those who have taken or are taking Course V., and who are able to read French or some other modern language.

VII. UNITED STATES HISTORY, 1750–1829. First semester: the French and Indian war, the English colonial system and the struggle precipitated by the attempts of George III. and his ministers to remodel it, the war for independence, the confederation, the framing and ratification of the state and federal constitutions. Second semester: the first six presidents, their personalities, problems, and policies, the problem of relations with Europe, the war of 1812, the Monroe doctrine, national expansion, growth of democracy. The important constitutional, political, economic, and social developments will be emphasized.

Hart's Formation of the Union may be used as a syllabus. Lectures, recitations, and essays. *Tu., Th., Sat., at 10.* 15 F. H. MR. SENNING. (IX.)

Course VII. is elective for those who have taken any three-hour course in history, or any two-hour course in economics. In 1913–14 the second semester of Course VII. may be elected separately by those who passed Course II. in 1911–12. This course may be omitted in 1914–15.

VIII. UNITED STATES HISTORY, 1829–1913. First semester: the personalities, policies, and achievements of the more important presidents and political leaders, and the important constitutional, political, economic, and social developments to the outbreak of the civil war. Second semester: the civil war, reconstruction, the new economic and social problems, the United States as a colonial and world power. Wilson's Division and Reunion may be used as a syllabus. Lectures, recitations, and essays. *Tu., Th., Sat., at 8.* 15 F. H. MR. SENNING. (VII.)

Course VIII. is elective for those who have taken any three-hour course in history, or any two-hour course in economics.

IX. POLITICAL SCIENCE. First semester: a descriptive study of existing national governments, with special reference to European countries. Ogg's Governments of Europe, and Beard's American Government and Politics. Second semester: the theory of the state, its origin, nature, functions, and organization. Garner's Introduction to Political Science. Recitations and discussions. *Mon., Wed., Fri., at 8.* 14 F. H. MR. SENNING. (I.)

Course IX. is elective for those who have taken any three-hour course in history, or any two-hour course in economics.

[X. MUNICIPAL GOVERNMENT. Municipal organization, administration, and problems in Europe and America. Munro's Government of European Cities, and Munro's Government of American Cities. Recitations and discussions. *Three times a week for a half-year.* MR. SENNING.]

Course X. is elective for those who have taken Course IX. It is omitted in 1913–14.

ECONOMICS AND SOCIAL SCIENCE.

PROFESSOR TUTTLE; MR. GOWIN.

I. PRINCIPLES OF ECONOMICS. The aim in the course is a thorough acquaintance with the principles of political economy and correct methods of analysis. The means of instruction in this and in the other courses in economics are text-books, lectures, discussions, reports, collateral reading, and frequent written tests. *Tu., Th., Sat., at 9.* 15 F. H. PROFESSOR TUTTLE. (VIII.)

Course I. is elective for Sophomores.

[II. ADVANCED ECONOMICS. The course includes the following sub-courses: 1. THE DEVELOPMENT OF ECONOMIC THOUGHT. A survey of the history of economic theory as related to economic development. 2. PRESENT DAY ECONOMIC THEORY. Critical studies in the works of living economists. *Three times a week.* PROFESSOR TUTTLE.]

Course II. is elective for those who have taken Course I. It is given in alternate years with Course III., and is omitted in 1913–14.

III. APPLIED ECONOMICS. The course includes the following sub-courses: 1. THE CORPORATION. The principles and methods governing the promotion, organization, and management of modern corporations. 2. THE PROBLEM OF MONOPOLY. A historical and critical study of the pool, the trust, the holding company, the consolidated corporation, the "community of interest" in the United States, and proposed methods of control. 3. THE PUBLIC SERVICE CORPORATION. Problems of public ownership and control; public utilities commissions. 4. PUBLIC FINANCE. Revenue, expenditure, the principles of taxation, with especial reference to the financial system of the United States, and the tariff question. 5. TARIFF. The theories of free trade and protection; the history of tariff legislation in the United States, England, Germany, and France. *Mon., Wed., Fri., at 11.* 15 F. H. PROFESSOR TUTTLE. (IV.)

Course III. is elective for those who have taken Course I. It is given in alternate years with Course II., and will be omitted in 1914–15.

IV. APPLIED ECONOMICS. The course includes the following sub-courses: 1. MONEY. The theory of money and the principles of monetary circulation. 2. PAPER MONEY. The theory and history of governmental issues, and especially the "greenback" experiment in the United States. 3. BANKING. The theory and history of banking, the banking systems of England, Germany, France, and the United States, with especial reference to note circulation. 4. MONETARY AND BANKING PROBLEMS OF THE UNITED STATES. The production of the precious metals, the monetary history of the United States, England, Germany, and France, the silver issue in the United States, international bimetallism, and plans for monetary and banking reform. *Tu., Th., Sat., at 11.* 15 F. H. PROFESSOR TUTTLE. (X.)

Course IV. is elective for those who have taken Course I. It is given in alternate years with Course V., and will be omitted in 1914–15.

[V. APPLIED ECONOMICS. The course includes the following sub-courses: 1. THE LABOR PROBLEM. The evolution of the modern laborer, the rise of the factory system, the workman's position under the wage system. 2. SOCIALISM. The important socialistic theories and the socialistic movement. 3. SOCIAL REFORM. The theories of social reform and the practical methods and movements which aim to improve the laborer's condition: nationalization of the land, coöperation, profit-sharing, trade unionism, collective bargaining, industrial arbitration, labor legislation, the social settlement, industrial education. 4. IMMIGRATION. The history of immigration into the United States and the discussion of current problems. *Three times a week.* PROFESSOR TUTTLE.]

Course V. is elective for those who have taken Course I. It is given in alternate years with Course IV., and is omitted in 1913–14.

VI. PRINCIPLES OF SOCIOLOGY. An introductory course designed to set forth the development of society and the fundamental social institutions. Origin of society, control over nature, rise of the family, social forces, and social

efficiency are among the topics considered. *Mon., Wed., Fri., at 12.* Room B, F. H. MR. GOWIN. (V.)

Course VI. is elective for those who have taken, or are taking, Course I.

VII. APPLIED SOCIOLOGY. A study of a series of social problems, such as housing reform, standards of living, social centers, recreation, church and social work, both in relation to their origin and best methods of solution. The class-room work is supplemented by visits to several of the charitable, penal, and reformatory institutions in and about Middletown. *Tu., Th., at 10; Tu. 7–9 p. m.; every other week.* 11 F. H. MR. GOWIN. (IX.)

Course VII. is elective for those who have taken, or are taking, Course I.

*VIII. ECONOMICS SEMINARY. Each member of the seminary is assigned a subject for investigation in the field of economics or social science. The work is done under the direction of the instructor. Each member is expected to report from week to week on the progress made and finally to prepare a thesis exhibiting the results of the year's research. *Mon., 7–10 p. m. (first and second terms), counting as two hours for the year.* 10 F. H. PROFESSOR TUTTLE.

Course VIII. is elective, with the permission of the instructor, for those Seniors who have shown, in earlier courses in the department, the ability to undertake individual research.

*IX. ADVANCED SOCIOLOGY. The course consists of three parts: (*a*) Social theory, a study of the works of several leading sociologists, such as Comte, Spencer, Ward, Ross, and Giddings. (*b*) Scientific method, a survey of the various means by which problems are attacked, with special emphasis on statistics. (*c*) Social problems, the concluding part of the course, in which each student is called upon to choose some concrete problem and to apply his social theory and scientific method to its intensive study. *Tu., Th., at 12.* Room B, F. H. MR. GOWIN. (XI.)

Course IX. is elective, with the permission of the instructor, for those who have taken any two of Courses VI., VII., X., and XI.

X. ANTHROPOLOGY. (*a*) Physical anthropology: evolution of man in its physical aspects. Races, their classification and distribution. (*b*) Cultural anthropology: materials drawn in the main from American anthropology. Archaeological remains, arts, and industries, languages, myths, religions, social customs and organization of primitive peoples. (*c*) Race problems in America, as found in the Indian, the Negro, and immigration. *Tu., Th., at 9; Wed., at 2.* Room B, F. H. MR. GOWIN. (VIII.)

Course X. is elective for those who have taken, or are taking, Course I. It is given in alternate years with Course XI., and will be omitted in 1914–15.

[XI. SOCIAL PSYCHOLOGY. Interplay of individual mind and social mind. Evolution of the social mind. Laws of suggestion and imitation; mob mind, "fad," "craze," sect, fashion, convention, custom, folkways, and *mores*. Leadership, hero-worship, genius, innovation, individuality. An interpretation of society in terms of its chief psychic factors. *Twice a week.* MR. GOWIN.]

Course XI. is elective for those who have taken Course VI. It is given in alternate years with Course X., and is omitted in 1913–14.

GRADUATE INSTRUCTION.

Course VIII. is intended primarily for graduate students, but is also open to such undergraduates as are making special studies in the department. Courses II.–VII. and IX.–XI., while intended primarily for undergraduates, may also be taken with advantage by graduates who have studied only the principles of economic science.

It will be noted that in each of the college classes certain courses cannot be taken at all except by such students as take Course I. in the Sophomore year. Hence a student in an odd-numbered class who wishes to take Course III., IV., or X., must qualify himself to take it in his Junior year by taking Course I. in his Sophomore year; and similarly a student in an even-numbered class can take Courses II., V., and XI. only by taking Course I. in his Sophomore year.

PHILOSOPHY.

PROFESSOR ARMSTRONG.

I. LOGIC. Jevons-Hill's Elements of Logic; lectures, and recitations, illustrated by numerous examples in logical praxis. An elementary course in the forms of reasoned thinking, both deductive and inductive. SECTION 1, *Mon., Wed., Fri., at 11 (first half-year);* SECTION 2, *Mon., Wed., Fri., at 11 (second half-year)*, alternating with the sections in I. Psychology. 28 F. H. (IV.)

II.[1] ANCIENT AND MEDIAEVAL PHILOSOPHY. Zeller's Outlines of Greek Philosophy, with references to other authorities. Falckenberg's History of Modern Philosophy. Lectures, recitations, and discussions on the historical development of philosophy to the beginning of modern times. *Mon., Wed., Fri., at 10 (first half-year).* 28 F. H. (III.)

Course II. is elective for those who have taken any one of the following courses: I. Philosophy, I. Psychology, I. Ethics. Juniors who elect it must have received grade three or over in one of these courses.

III.[2] MODERN PHILOSOPHY TO 1840. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other standard authorities. The progress of modern philosophy is traced to the opening of the present age. *Mon., Wed., Fri., at 10 (second half-year).* 28 F. H. (III.)

Course III. is elective, under ordinary circumstances, for those who have taken Course II.

III. A. READINGS IN PHILOSOPHY. Readings in the philosophical classics, ancient and modern, and in collateral authorities. Those who elect this course are required to present abstracts and theses based on the selections read.

Course III. A is supplementary to Courses II. and III., and elective only in connection with them. It counts as *one hour a week* for the year.

*IV. PHILOSOPHY OF THE NINETEENTH CENTURY. Lectures, readings, and discussions on philosophical thought since the disruption of the Hegelian school. In the latter part of

the year the work is conducted by the seminary method. Special attention is given to contemporary English and American philosophy, and to the most recent types of opinion, as pragmatism and the systems of Eucken and Bergson. *Th., 7:30–9 p. m., counting as two hours.* 24 F. H.

Course IV. is elective, with the permission of the instructor, for those who have taken Courses II. and III., or their equivalent.

PSYCHOLOGY.

† PROFESSOR DODGE; ASSOCIATE PROFESSOR MILES.

I. ELEMENTARY PSYCHOLOGY. Lectures and recitations based on Pillsbury's Essentials of Psychology, and references to other standard authorities. SECTION 1, *Mon., Wed., Fri., at 11 (first half-year)*; SECTION 2, *Mon., Wed., Fri., at 11 (second half-year)*, alternating with the sections in I. Philosophy. 22 F. H. ASSOCIATE PROFESSOR MILES. (IV.)

Course I. is elective for Sophomores. It may not be elected alone, but must be elected with I. Philosophy. It is preparatory to all later work in the department, and it should therefore be taken in Sophomore year by all students who plan to elect their major studies in the department.

II. PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY. Lectures and class demonstrations, with collateral reading. The course opens with an account of the structure and operation of the nervous system, and the interrelation between mind and body. It includes experimental discussions of the elementary psycho-physical processes and of some of the more complex processes, as time and space, the geometrical illusions, language, motor organization, instinct, habit, and reaction. *Mon., Wed., Fri., at 8.* 22 F. H. ASSOCIATE PROFESSOR MILES. (I.)

Course II. is elective for those who have taken Course I., or for those who are taking it in their Junior or Senior year.

[III. ADVANCED PSYCHOLOGY. Lectures and reports. Part I. A systematic general account of the emotions and the will. Part II. A more detailed account of special phenomena,

† On leave of absence for the year.

including anger, fear, the tender emotions, sympathy, the aesthetic emotions, the religious emotions, emotional prejudice, the motor value of ideas, suggestion and hypnotism, compulsive ideas, etc. *Twice a week.*]

Course III. is elective for those who have taken Course I. It is omitted in 1913–14.

IV. EDUCATIONAL PSYCHOLOGY. Lectures, reports, and required readings, constituting a systematic discussion of the laws of mental development and the psychological basis of educational theory and practice. In conjunction with Course I., this course is planned to meet the requirements in educational psychology of those states and cities which demand the professional training of teachers, but it is also intended to serve the needs of those whose interest in the psychological problems of education is non-professional. *Tu., Th., at 10.* 22 F. H. ASSOCIATE PROFESSOR MILES. (IX.)

Course IV. is elective for those who have taken Course I.

*V. LABORATORY COURSE IN PSYCHOLOGY. Experimental study of special problems. *Th., at 2.* 22 F. H. ASSOCIATE PROFESSOR MILES.

Course V. is elective, with the permission of the instructor, for those who have taken Course II.

ETHICS AND THE PHILOSOPHY OF RELIGION.

PROFESSOR RICE; ASSOCIATE PROFESSOR DRAKE.

I[1]. INTRODUCTION TO ETHICS. A few lectures on the origin and evolution of morality are followed by a discussion of the fundamental problems of the theory of morality, and of concrete moral problems, personal and social. Readings in the best modern authors. The course aims, first, to furnish a sound scholarly basis for moral judgments, and then to interest the student in the great moral problems and movements of the day. *Tu., Th., Sat., at 9 (first half-year).* 28 F. H. ASSOCIATE PROFESSOR DRAKE. (VIII.)

Course I. is elective for Juniors.

II.[2] INTRODUCTION TO THE STUDY OF RELIGION. A few lectures on the origin of religion and the great historic religions are followed by a discussion of the debated problems of religion and a constructive presentation of the truths of Christianity. Readings in the best modern authors. The course aims, first, to quicken the student's interest in religion, and then to aid him to face fearlessly the questionings of modern times from the point of view of sound scholarship. *Tu., Th., Sat., at 9 (second half-year).* 28 F. H. ASSOCIATE PROFESSOR DRAKE. (VIII.)

Course II. is elective for those who have taken Course I., and occasionally for others by permission of the instructor.

III.[1] THE ENGLISH BIBLE. A study, historical and interpretative, of the Old Testament, with special emphasis upon the teaching of the great Hebrew prophets. Warschauer's What is the Bible, ch. I.–VI., and Cornill's Prophets of Israel, are read in connection with selected Bible passages. *Tu., Th., Sat., at 10 (first half-year).* 24 F. H. ASSOCIATE PROFESSOR DRAKE. (IX.)

Course III. is elective for those who have taken, or are taking, Courses I. and II.

IV.[2] THE ENGLISH BIBLE. A study, historical and interpretative, of the New Testament, with special emphasis upon the life and teachings of Christ and of Paul. Warschauer's What is the Bible, ch. VII.–XII., and Bousset's Jesus, are used in connection with selected Bible passages. *Tu., Th., Sat., at 10 (second half-year).* 24 F. H. ASSOCIATE PROFESSOR DRAKE. (IX.)

Course IV. is elective for those who have taken Course III.

V.[2] RELATIONS OF SCIENCE AND RELIGION. Lectures and recitations on the history of important advances in scientific thought and their bearing upon theistic and Christian belief. The heliocentric astronomy, the antiquity of the earth and of man, the correlation of physical and vital forces, and the theory of evolution are among the topics discussed. Rice's Christian Faith in an Age of Science is used as a text-book. *Tu., Th., at 12 (second half-year).* 14 F. H. PROFESSOR RICE. (XI.)

Course V. is elective for Juniors. It will be omitted in 1914–15.

VI. ETHICAL SEMINARY. A discussion of fundamental moral and religious problems on the basis of readings in the great ethical teachers, ancient and modern. Selected passages are read from Plato, Aristotle, Marcus Aurelius, Goethe, Mazzini, Carlyle, Mill, Arnold, Ruskin, Emerson, and Tolstoi, and their respective attitudes toward similar problems are contrasted. The conceptions of other thinkers are also briefly presented in their proper connection. *Tu., 2 to 3:45 p. m. (counting as two hours for the year).* 24 F. H. ASSOCIATE PROFESSOR DRAKE. (XII.)

Course VI. is elective for those who have taken Courses I. and II., for Seniors who are taking them, and occasionally, by special permission, for others.

MATHEMATICS AND ASTRONOMY.

PROFESSOR HOWLAND; ASSOCIATE PROFESSOR CAMP; DR. LAMOND.

I.[1] SOLID GEOMETRY. SECTION 1, *Mon., Wed., Fri., at 9;* SECTION 2, *Tu., Th., Sat., at 9;* SECTION 3, *Tu., Th., Sat., at 8 (first half-year).* 25 and 26 O. H. PROFESSOR HOWLAND, ASSOCIATE PROFESSOR CAMP, and DR. LAMOND. (II.)

Course I. is elective for Freshmen.

II. TRIGONOMETRY. SECTION 1, *Mon., Wed., Fri., at 9;* SECTION 2, *Tu., Th., Sat., at 9;* SECTION 3 *(second half-year only), Tu., Th., Sat., at 8.* 25 and 26 O. H. PROFESSOR HOWLAND, ASSOCIATE PROFESSOR CAMP, and DR. LAMOND. (VIII.)

Course II. is elective for Freshmen. It is given both half-years.

III.[2] ANALYTIC GEOMETRY. SECTION 1, *Mon., Wed., Fri., at 9;* SECTION 2, *Tu., Th., Sat., at 9 (second half-year).* 25 and 26 O. H. ASSOCIATE PROFESSOR CAMP and DR. LAMOND. (II.)

Course III. is elective for those who have taken Course II.

In fulfilment of the requirements for the degree of B. S. a candidate must present on admission, or take in Freshman

year, two of the following subjects:—solid geometry, trigonometry, analytic geometry. As a substitute for any one of them, except trigonometry, he may offer advanced algebra on admission.

IV. PLANE SURVEYING. The theory and use of chain, tape, compass, level, transit, and sextant. Surveying methods, problems, and computations, together with practical field and office work. *Tu., Th., at 8, and two hours of field-work, four hours counting as three.* 26 O. H. DR. LAMOND. (VII.)

Course IV. is elective for those who have taken Course II.

V.[1] ALGEBRA. An elementary college course, including the following topics: mathematical induction, probability, series, undetermined coefficients, determinants, Horner's method, etc. *Mon., Wed., Fri., at 11 (first half-year).* 25 O. H. ASSOCIATE PROFESSOR CAMP. (IV.)

Course V. is elective for those who have taken Course III.

VI.[2] ANALYTIC GEOMETRY. Advanced course, beginning with a review of Course III., and extending into the subject of solid analytic geometry. *Mon., Wed., Fri., at 11 (second half-year).* 25 O. H. PROFESSOR HOWLAND. (IV.)

Course VI. is elective for those who have taken Course III.

Students are advised to take Courses V. and VI. the same year.

VII. DIFFERENTIAL AND INTEGRAL CALCULUS. Elementary course. *Mon., Wed., Fri., at 8.* 26 O. H. PROFESSOR HOWLAND. (I.)

Course VII. is elective for those who have taken Course III.

VIII. CALCULUS. In this course it is intended to give in the first half-year a more extended discussion of some of the subjects introduced in Course VII., and in the second half-year an introduction to the theory of differential equations, with applications to geometry, mechanics, and physics. *Mon., Wed., Fri., at 10.* PROFESSOR HOWLAND. 26 O. H. (III.)

Course VIII. is elective for those who have taken Course VII.

[IX.[1] THEORY OF ALGEBRAIC CURVES. An introductory course. *Three times a week.* PROFESSOR HOWLAND.]

[X.[2] HIGHER ALGEBRA. An introduction to some of the important branches of higher algebra: properties of polynomials, system of linear equations, linear transformations, invariants, quadratic forms, etc. *Three times a week.* PROFESSOR HOWLAND.]

Courses IX. and X. are elective for those who have taken Courses V., VI., and VII. They are omitted in 1913–14.

*XI.[2] INFINITE SERIES. Convergence, uniform convergence, differentiation and integration of series of functions of one variable; the use of series in computing; an introduction to the subject of Fourier's series, with applications to simple problems in the flow of heat and electricity. *Tu., Th., Sat., at 10 (second half-year).* 25 O. H. ASSOCIATE PROFESSOR CAMP. (IX.)

Course XI. is elective, with the permission of the instructor, for those who have taken Course VII., or who have taken Course V. and are taking Course VII.

*XII.[1] REDUCTION OF OBSERVATIONS. The course deals with the general problem of obtaining from a set of observations the best possible results, and measures of their reliability. It includes the following topics: interpolation by means of finite differences, probable error, and the method of least squares, with applications to simple problems in physics, astronomy, and statistics. *Mon., Wed., Fri., at 9 (first half-year).* ASSOCIATE PROFESSOR CAMP. (II.)

Course XII. is elective, with the permission of the instructor, for those who have done some advanced work in the department.

[XIII. MECHANICS. This course is intended partly for students of mathematics, and partly for scientific students who are preparing to study engineering or mathematical physics. Among the topics treated are: the simpler machines, stresses in frames, the suspension bridge, projectiles, central forces, moments of inertia, and the governor. *Three times a week.* ASSOCIATE PROFESSOR CAMP.]

Course XIII. is elective for those who have taken Course VII. It is omitted in 1913–14, but will probably be given in 1914–15.

XIV.[1] DESCRIPTIVE ASTRONOMY. Lectures and recitations. The course is designed to give such a knowledge of the subject as may properly constitute a part of a liberal education. Mathematical topics are eliminated as far as practicable. Opportunities of viewing the principal celestial objects through the telescope are given. Moulton's Introduction to Astronomy is used as a text-book. *Tu., Th., Sat., at 10 (first half-year).* 25 O. H. ASSOCIATE PROFESSOR CAMP. (IX.)

Course XIV. is elective for those who have taken Course I.

[*XV.[2] PRACTICAL ASTRONOMY. The theory and use of the transit, zenith telescope, sextant, and equatorial. In this course some of the mathematical topics omitted in Course XIV. are considered, but most of the time is devoted to work in the observatory. *Three times a week (second half-year).* ASSOCIATE PROFESSOR CAMP.] (IX.)

Course XV. is elective, with the permission of the instructor, for those who have taken Courses III. and XIV. It is omitted in 1913–14.

DESCRIPTIVE GEOMETRY AND MECHANICAL DRAWING.

DESCRIPTIVE GEOMETRY AND MECHANICAL DRAWING. Lectures and recitations, based on text-books, together with practice in the draughting room. Problems in descriptive geometry are taken up relating to points, lines, planes, and surfaces, their intersections and developments, etc. The course includes also the care and use of drawing instruments, mechanical drawing from objects, sketching, lettering, dimensioning, etc. *Mon., Wed., Fri., 10–12, counting as three hours for the year.* 40 S. L. DR. LAMOND. (III.)

This course is elective for those who have taken Course I. in mathematics.

PHYSICS.

PROFESSORS CRAWFORD AND CADY.

I. ELEMENTARY PHYSICS. A general course, conducted by lectures, with experimental illustrations, following a standard text-book. A two-hour laboratory period is substituted

for the regular lecture about once a fortnight, the class being divided into sections for this purpose. *Mon., Wed., Fri., at 10.* 34 S. L. PROFESSORS CRAWFORD and CADY. (III.)

Course I. is elective for those who have taken, or are taking, Course II. in mathematics. Those who cannot take Course II. in mathematics till the second half-year must attend and pass in a brief course of lectures in trigonometry at the beginning of the fall term. Those who elect Course I. are advised also to elect Course I.A. Students who have received credit in physics on admission to college, but who elect to take Course I. in class, in order to be allowed to pursue the more advanced courses in the department, will receive credit for *two* hours on their quota toward graduation.

I.A. PROBLEMS IN PHYSICS. The course is supplementary to Course I., and is devoted chiefly to the solution of problems which illustrate the principles involved in that course. *Th., at 8.* 40 S. L. PROFESSORS CRAWFORD and CADY. (VII.)

Course I.A is elective for those who have taken, or are taking, Course I., and who have taken Course II. in mathematics.

II. ELEMENTARY PRACTICAL PHYSICS. The course is parallel with Course I., and may advantageously be taken with it. It is also required as an introduction to further laboratory work. Each exercise occupies 2½ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* S. L. PROFESSORS CRAWFORD and CADY.

Course II. is elective for those who have taken, or are taking, Course I., or who have received credit in physics on admission.

N. B. Students who receive credit in physics on admission, but who do not take Course I., must give evidence by examination or otherwise of the requisite proficiency before being admitted to any of the following courses:—

III.[1] PROPERTIES OF MATTER; SOUND. Lectures, with experimental illustrations, following Poynting and Thomson's Sound, preceded by a short course of lectures on elasticity and surface tension. About eight two-hour periods of laboratory practice are substituted for the same number of lectures.

Mon., Wed., Fri., at 12 (first half-year). 34 S. L. PROFESSOR CRAWFORD. (V.)

Course III. is elective for those who have taken Course I., and have taken, or are taking, Course VII. in mathematics.

IV.[2] LIGHT. Text-book and lectures, with experimental illustrations, on geometrical optics and the elements of the wave theory of light. Laboratory practice as in Course III. *Mon., Wed., Fri., at 12 (second half-year).* 34 S. L. PROFESSOR CRAWFORD. (V.)

Course IV. is elective for those who have taken Course I., and who have taken, or are taking, Course VII. in mathematics.

[V.[1] HEAT. A general course in the subject, omitting thermo-dynamics, and including some laboratory practice. *Three times a week (first half-year).* PROFESSOR CRAWFORD.]

Course V. is elective for those who have taken Course I. It is omitted in 1913–14.

[VI.[2] THERMO-DYNAMICS. Text-book and lectures on the elements of thermo-dynamics, with special application to the steam engine, and involving a few elementary exercises in engine-testing. *Three times a week (second half-year).* PROFESSOR CRAWFORD.]

Course VI. is elective for those who have taken Course V., and who have taken, or are taking, Course VII. in mathematics. It is omitted in 1913–14.

VII. APPLICATIONS OF ELECTRICITY AND MAGNETISM. Lectures, laboratory work, and demonstrations, based largely upon a text-book. The course is an elementary treatment of the electric and magnetic phenomena in nature; magnetic properties of iron; electrolysis and storage batteries; heat, light, and power; telegraphy and telephony; electric waves, Röntgen rays, and radio-activity. *Tu., Th., Sat., at 10.* 34 S. L. PROFESSOR CADY. (IX.)

Course VII. is elective for those who have taken Course I.

VIII. EXPERIMENTAL ELECTRICITY. Laboratory practice in electricity and magnetism, with occasional lectures. Opportunity is afforded for some shop-work, and for practical

experience in running an engine and dynamo. Each exercise occupies 2½ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* S. L. PROFESSOR CADY.

Course VIII. is elective for those who have taken Courses I. and II., and who have taken, or are taking, Course VII.

[IX. DYNAMOS, MOTORS, AND TRANSFORMERS. Text-book and lectures on the elements of direct and alternating current practice, with laboratory tests by the class. *Three times a week.* PROFESSOR CADY.]

Course IX. is elective for those who have taken Courses II. and VII., and who have taken, or are taking, Course VIII. It is advisable, though not necessary, to take Course VII. in mathematics before electing this course. It is omitted in 1913–14.

X. ADVANCED ELECTRICITY. Text-book and lectures on the elementary mathematical theory of electricity and magnetism. In the second half-year the subject of electrical oscillations is especially considered, and the work is in part experimental. *Mon., Wed., Fri., at 2.* 34 S. L. PROFESSOR CADY.

Course X. is elective for those who have taken Course VII. in physics and Course VII. in mathematics.

XI. PRACTICAL PHYSICS. Careful measurements in mechanics, heat, sound, and light. Each exercise occupies 2½ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* S. L. PROFESSOR CRAWFORD.

Course XI. is elective for those who have taken Course II. In general, those electing it will be expected to have taken also one or more of Courses III.–VII.

XII. ADVANCED EXPERIMENTAL ELECTRICITY. Selected problems in electricity and magnetism, particularly in alternating currents, electric oscillations, and discharge through gases. The course includes reading and lectures as well as experimental work. Each exercise occupies 2½ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* S. L. PROFESSOR CADY.

Course XII. is elective for those who have taken Course VIII. in physics and Course VII. in mathematics, and who have taken, or are taking, either Course IX. or Course X. in physics.

CHEMISTRY.

PROFESSOR BRADLEY; DR. WARD; DR. CROSSLEY.

I. ELEMENTARY CHEMISTRY. A. LECTURES. The first half-year is devoted to the non-metallic elements; the second half-year, chiefly to the more common metals. *Tu., Th., Sat., at 10.* 3 J. H.

B. LABORATORY PRACTICE. SECTION I., *Thursday, 2–4*; SECTION II., *Thursday, 4–6.* CHEM. LAB. PROFESSOR BRADLEY. (IX.)

Course I. is elective for Freshmen. Students who receive credit in chemistry on admission to college may be admitted to the second half of the course and receive credit for it. The course counts as *three hours.*

II.[1] QUALITATIVE ANALYSIS. A. Lectures on the chemical problems involved in the detection of the more common bases and acids. *Sat., at 11 (first half-year).* 3 J. H. PROFESSOR BRADLEY.

B. Laboratory practice in basic and acid analysis. Each exercise occupies 2½ hours. Those of Monday and Friday are required. *Mon., Fri., at 2, and a third assigned period (first half-year).* CHEM. LAB. PROFESSOR BRADLEY and DR. WARD.

Course II. is elective for those who have taken Course I.

III.[2] ELEMENTARY QUANTITATIVE ANALYSIS. A laboratory course in gravimetric and volumetric analysis, with lectures and class discussions. Each exercise occupies 2½ hours. Those of Monday and Friday are required. *Mon., Fri., at 2, and a third assigned period (second half-year).* CHEM. LAB. DR. WARD.

Course III. is elective for those who have taken Course II.

IV.[1] LIQUEFACTION OF GASES. Lectures, with experimental demonstrations, upon the history and theory of the

liquefaction of gases, and upon some of the more important results of work at low temperatures. *Wed., Fri., at 10 (first half-year).* 3 J. H. PROFESSOR BRADLEY. (III.)

Course IV. is elective for those who have taken Course I.

*V. ADVANCED QUANTITATIVE ANALYSIS. A laboratory course in the principles of quantitative analysis, as illustrated by selected gravimetric, volumetric, colorimetric, electrochemical, and gasometric methods, with lectures and class discussions. Written reports are required covering the theory involved. For those who elect this course for four periods it includes the analysis and examination of such material as sugar, milk, butter, cereals; salad, illuminating and lubricating oils; soap, paint, asphalt; water for industrial purposes. Each exercise occupies 2½ hours. Those of Monday and Friday are required. *Mon., Fri., at 2, and one, or two, other assigned periods.* CHEM. LAB. DR. WARD.

Course V. is elective for three periods, with the permission of the instructor, for those who have taken Course III. It is elective for four periods for those who have taken Courses III. and VII.

VI. ORGANIC CHEMISTRY. Lectures and recitations upon the principles of organic chemistry. *Mon., Wed., Fri., at 11.* 3 J. H. DR. CROSSLEY. (IV.)

Course VI. is elective for those who have taken Course II. Course VII. should be elected, if possible, in the same year with Course VI.

VII. ORGANIC CHEMISTRY. A laboratory course devoted to the study of typical reactions of organic chemistry, and to the preparation of carbon compounds. Each exercise is required, and occupies 2½ hours. Occasional lectures are given on Mondays at 2. *Mon., at 2, and two other assigned periods.* CHEM. LAB. DR. CROSSLEY.

Course VII. is elective for those who have taken, or are taking, Course VI. With the permission of the instructor, it may be elected for two periods a week.

VIII. PHYSICAL CHEMISTRY. A course devoted to the systematic treatment of modern chemical theory. The effect

of the variables, heat, light, pressure, and electricity is studied in detail. Special attention is given to the mass law and the phase rule. The third assigned period will at times consist of a laboratory exercise in physico-chemical measurements, such as molecular weight determinations, heat of solution, conductivity of electrolytes, electro-motive force, etc. *Tu., Th., at 12, and a third assigned period.* 3 J. H. DR. WARD. (XI.)

Course VIII. is elective for those who have taken, or are taking, Course VI.

IX. INDUSTRIAL CHEMISTRY. Lectures and collateral reading. The purpose of the course is to give a broad, cultural idea of the chemical processes involved in the manufacture of products of value in modern every-day life. *Mon., Wed., at 9.* 3 J. H. DR. CROSSLEY. (II.)

Course IX. is elective for those who have taken, or are taking, Course VI.

*X.[2] ELECTRO-CHEMISTRY. Lectures. A description of electric processes for the preparation of compounds; electro-thermal and electrolytic extraction and refining of metals; electro-plating; the theories of electrolysis and electrolytic dissociation. *Wed., Fri., at 12 (second half-year).* 3 J. H. DR. WARD. (V.)

Course X. is elective, with the permission of the instructor, for those who have taken Course II.

*XI.[2] APPLIED ELECTRO-CHEMISTRY. A laboratory course devoted to the study of the phenomena of electrolysis; measurement of electrical constants; determination of current and energy efficiencies in electrolytic work; study of commercial methods of electrolytic plating and refining of metals, and the electro-chemical preparation of pigments and of organic and inorganic compounds in general. Each exercise occupies 2½ hours. *Two exercises a week, the hours to be determined hereafter (second half-year).* CHEM. LAB. DR. WARD.

Course XI. is elective, with the permission of the instructor, for those who have taken, or are taking, Courses V. and X. in chemistry, and Course VII. in physics.

*XII.[2] PHYSIOLOGICAL CHEMISTRY. A lecture course devoted to the study of the chemistry of foods, digestion, assimilation, metabolism, respiration, secretions, and the excretions. *Three times a week (second half-year), the hours to be determined hereafter.* 3 J. H. DR. CROSSLEY.

Course XII. is elective, with the permission of the instructor, for those who have taken, or are taking, Course VI.

*XIII.[2] PHYSIOLOGICAL CHEMISTRY. A laboratory course, devoted to the experimental study of the chemistry of animal tissues and organs, of foods and digestion, and of milk, urine, blood, etc. Each exercise occupies 2½ hours. *Mon., at 2, and two other assigned periods (second half-year).* CHEM. LAB. DR. CROSSLEY.

Course XIII. is elective, with the permission of the instructor, for those who have taken Courses III. and VI., and who have taken, or are taking, Course XII.

XIV. THEORETICAL CHEMISTRY. Lectures upon the origin, development, and present status of the theory of the molecule and the atom. During the second semester attention is given to the corpuscular theory of atomic composition, and to the transformations of radio-active elements. *Mon., Wed., at 12.* 1 J. H. PROFESSOR BRADLEY. (V.)

Course XIV. is elective for those who have taken Courses III. and VI.

*XV. CHEMISTRY SEMINARY. Readings in current literature, with reports and discussions upon assigned topics. *Tu., Th., at 11.* 1 J. H. PROFESSOR BRADLEY. (VIII.)

Course XV. is elective, with the permission of the instructor, for those who have taken, or are taking, Courses VI., VIII., and XIV.

GRADUATE INSTRUCTION.

Course XV., although elective for undergraduates, is designed chiefly for graduates.

In addition, the following courses are offered:

XVI. LOW TEMPERATURE INVESTIGATION. Inquiry into special problems connected with the attainment and utilization of low temperatures. Facilities for this work are afforded by the liquid-air plant. PROFESSOR BRADLEY.

XVII. ORGANIC RESEARCH. Investigation of special problems in theoretical and applied organic chemistry. DR. CROSSLEY.

Course XVII. is intended for graduates, but may be elected, with the permission of the instructor, by Seniors who have taken, or are taking, Courses V.–VIII., XIV., and XV.

GEOLOGY.

PROFESSOR RICE; MR. BARROWS.

I.[2] PHYSICAL GEOGRAPHY. Recitations and lectures, with Salisbury's Physiography for High Schools as a text-book. SECTION 1, *Tu., Th., at 2;* SECTION 2, *Tu., Th., at 3 (second half-year).* 8 J. H. MR. BARROWS. (XII.)

Course I. is elective for Freshmen.

II. GEOLOGY. Elementary course. A course of lectures, chiefly on dynamical and structural geology. Dana's Revised Text-book of Geology is recommended for reference. *Mon., Fri., at 12; Wed., at 3.* 8 J. H. PROFESSOR RICE. (V.)

Course II. is elective for those who have taken I. Physics and I. Chemistry, and for others with permission of the instructor.

III.[1] GEOLOGY. Advanced course in structural and dynamical geology. Recitations and lectures, with Chamberlin and Salisbury's College Text-book of Geology as the text-book. Special topics with references are assigned to members of the class, on which they are to give lectures. Excursions on Saturdays during the fall. The phenomena observed in an excursion are discussed at the next meeting of the class, one of the members of the class often giving a report thereon. *Three times a week (first half-year).* 8 J. H. PROFESSOR RICE.

Course III. is elective for those who have taken Course II. It is desirable that those who take this course should also have taken the course in physical geography.

IV.[2] GEOLOGY. Historical geology and paleontology. Recitations and lectures, with same text-book as in Course III. Excursions on Saturdays during the spring term (required only of those who take also Course III.). *Three times a week (second half-year), counting as four hours a week for those who take also Course III.* 8 J. H. PROFESSOR RICE.

Course IV. is elective for those who have taken Course II., and who have taken, or are taking, the courses in zoölogy and botany.

[V.[1] MINERALOGY. Crystallography and optical mineralogy. Lectures and practical exercises. Dana's Text-book of Mineralogy is used for reference. *Three times a week (first half-year).* PROFESSOR RICE.]

Course V. is elective for those who have taken trigonometry, analytic geometry, solid geometry, I. Physics, and I. Chemistry. It is omitted in 1913–14, but will be given in 1914–15.

[VI.[2] MINERALOGY. Determinative and descriptive mineralogy. Laboratory work in determinative mineralogy; lectures on descriptive mineralogy. Brush and Penfield's Manual of Determinative Mineralogy, and Dana's Text-book of Mineralogy, are used for reference. *Three times a week (second half-year).* PROFESSOR RICE.]

Course VI. is elective for those who have taken Course V. It is very desirable that those who take this course should have taken qualitative analysis. Course VI. is omitted in 1913–14, but will be given in 1914–15.

GRADUATE INSTRUCTION.

Courses III., IV., V., and VI., although intended primarily for undergraduates, have often been taken by graduate students.

Additional work is provided for graduate students. This may include courses of reading in various branches of geological science, field work, or laboratory work.

BIOLOGY.

PROFESSOR CONN; ASSOCIATE PROFESSOR WHITNEY.

I.[1] GENERAL BIOLOGY. An introduction to the study of botany, zoölogy, and physiology. Lectures, recitations, and

laboratory work. *Mon., Fri., 2–4 (with a laboratory section, Wed., 11–1) first half-year, counting as one hour for the year.* 8 J. H. PROFESSOR CONN and ASSOCIATE PROFESSOR WHITNEY. (VI.)

II.[2] BOTANY. Recitations, lectures, and laboratory work. *Mon., Fri., 2–4 (with a laboratory section, Wed., 11–1) second half-year, counting as one hour for the year.* 8 J. H. PROFESSOR CONN. (VI.)

Courses I. and II. are elective for Freshmen.

III. ZOÖLOGY. A study of the types of animals, including their embryology, and certain phases of comparative anatomy, by recitations and lectures. *Mon., Wed., Fri., at 9.* 8 J. H. PROFESSOR CONN and ASSOCIATE PROFESSOR WHITNEY. (II.)

Course III. is elective for Sophomores.

IV. PHYSIOLOGY. The instruction is given chiefly by lectures, with daily written recitations. *Tu., Th., at 11.* 8 J. H. PROFESSOR CONN. (X.)

Course IV. is elective for Sophomores.

[V. EVOLUTION. A study of evolution; lectures and recitations. The last half-year is devoted to the study of the evolution of man. *Twice a week.* PROFESSOR CONN.]

Course V. is elective for Juniors.

VI. BACTERIOLOGY. A study of the general subject, with special reference to sanitary problems. *Tu., Th., at 8.* 34 S. L. PROFESSOR CONN.

Course VI. is elective for Juniors. Courses V. and VI. are given in alternate years, Course V. being omitted in 1913–14.

*VII. BIOLOGY SEMINARY. Readings and reports upon modern biological journals and literature. The work of the seminary is done wholly by the students and involves the preparation of a thesis involving special study. *Mon., at 4.* 8 J. H. PROFESSOR CONN.

Course VII. is elective, with the permission of the instructor, for those who take Course X.

LABORATORY COURSES IN BIOLOGY.

In the following courses two and one-half laboratory hours are required to count as one hour in quota. The laboratory is regularly open every morning and afternoon, but instruction is given only on Tuesday, Wednesday, and Thursday afternoons and Tuesday, Thursday, and Saturday mornings. Lectures, which all students are required to attend, accompany the laboratory work.

VIII.A. INTRODUCTORY PRACTICAL COURSE. The biology of animals and plants, including the study of cells and cell structure, and followed by the dissection of invertebrates. *Five laboratory hours for the year, or seven and one-half for the first two terms for those who elect Course VIII.A1.* PROFESSOR CONN and ASSOCIATE PROFESSOR WHITNEY.

Course VIII.A is elective for Sophomores.

VIII. A1. VERTEBRATE DISSECTION. *Seven and one-half laboratory hours (third term).* ASSOCIATE PROFESSOR WHITNEY.

Course VIII.A1 is elective for those who have finished Course VIII.A.

IX. A. HISTOLOGY AND MICROSCOPIC ANATOMY. *Five laboratory hours for the year, or seven and one-half for the first two terms for those who elect Course IX.A1.* ASSOCIATE PROFESSOR WHITNEY.

IX. A1. EMBRYOLOGY. Chiefly the study of the chick. *Seven and one-half laboratory hours (third term).* Elective for those who have taken IX. A. ASSOCIATE PROFESSOR WHITNEY.

IX.B. LABORATORY BOTANY. This is an alternative course for the second year in the biological laboratory. The course includes a study of the various groups of plants from bacteria to the flowering plants and comprises structural, physiological, and histological botany. About one-third of the time is spent in field work, in which the student is required to identify trees, shrubs, and flowers, and prepare an herbarium. *Seven*

and one-half laboratory hours for the year. PROFESSOR CONN and ASSOCIATE PROFESSOR WHITNEY.

Courses IX.A and IX.B are elective for those who have taken Course VIII.A.

X. PRACTICAL BACTERIOLOGY. The course is intended to give the student experience in bacteriological laboratory methods, and includes collateral readings on microbiology. *Five laboratory hours a week for the year.* PROFESSOR CONN.

Course X. is elective for those who have taken Course IX.

In individual cases, work of a special character may be assigned to students taking Course X. in place of the regular course in bacteriology. This work may include some problem of research where the student is prepared for it.

PHYSICAL EDUCATION.

PROFESSORS CONN AND FAUVER.

I. PERSONAL AND SOCIAL HYGIENE. The course is designed to meet the growing demand that educated persons should have a practical knowledge of the laws of health. Under the head of personal hygiene, it covers such topics as food habits, exercise, the care of the skin, the heart, the respiratory organs, the mind, a discussion of the habits of study, of sex hygiene, etc. Under the head of social hygiene, it covers problems of contagious diseases, and general topics of sanitation which concern the individual's relations to the community. Lectures, with daily written recitations. *Wed., at 3.* 34 S. L. PROFESSOR CONN. (VI.)

Course I. is required of Freshmen, and elective for other students, but only in excess of the minimum quota.

II. PHYSICAL TRAINING—ELEMENTARY COURSE. During the first term, students are required to elect work in football, baseball, track, or tennis. In the second term, from Thanksgiving to Christmas, all are required to take systematic gymnastic work. After Christmas, all who have passed a satisfactory medical examination and certain physical efficiency

tests may substitute basket-ball, track, boxing, swimming, etc., for the gymnastic work. During the third term students elect work out of doors as in the first term. SECTION 1, *Mon., Wed., Fri., at 12;* SECTION 2, *Tu., Th., Sat., at 12.* PROFESSOR FAUVER.

Course II. is required of Freshmen. It does not count in the quota for graduation.

III. PHYSICAL TRAINING—ADVANCED COURSE. The work consists of advanced gymnastics, basket-ball, handball, squash, swimming, and boxing. SECTION 1, *Mon., Wed., Fri., at 3;* SECTION 2, *Tu., Th., at 3; Fri., at 4.* PROFESSOR FAUVER.

Course III. is required of Sophomores from Thanksgiving to Easter. It does not count in the quota for graduation.

IV. ANATOMY AND KINESIOLOGY. A partial course in descriptive anatomy, including a study of bones, joints, and muscles. In addition, the course deals with the principles of mechanism of bodily movements, including a consideration of the following topics: importance of posture in relation to health of body; effects of various exercises on the tissues of the body, etc. *First half-year.* Gymnastic work and athletics. Part of the work consists in serving as squad leaders in the regular Freshman and Sophomore classes. *Second half-year. Three times a week, the hours to be determined, counting as two hours a week for the year.* PROFESSOR FAUVER.

Course IV is elective for Juniors who have taken I. Physics, I. Chemistry, I. Biology, and Physiology. Those who take the course are strongly urged to take the course in Bacteriology. This course is intended especially for those who intend to teach.

DAILY PROGRAM, 1913-1914

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8.	VII. Greek [1] III. French I. History IX. History II. Psychology VII. Mathematics	II.A German II. French VIII. History [1] I. Mathematics, 3 [2] II. Mathematics, 3 IV. Mathematics Bacteriology	II. Greek VII. Greek [1] III. French I. Eng. Literature, 2 I. Eng. Language, 1 I. History IX. History II. Psychology VII. Mathematics	B Greek II.A German II. French, 1 VIII. History [1] I. Mathematics, 3 [2] II. Mathematics, 3 IV. Mathematics I.A Physics Bacteriology	II. Greek VII. Greek I. Eng. Literature, 2 I. Eng. Language, 1 I. History IX. History II. Psychology VII. Mathematics	II.A German II. French, 1 VIII. History [1] I. Mathematics, 3 [2] II. Mathematics, 3
9.	I. Latin, 3 VIII. Latin [2] X. German III. Eng. Literature [1] I. Mathematics, 1 II. Mathematics, 1 [2] III. Mathematics, 1 XII. Mathematics IX. Chemistry Zoology	I. Latin, 1 IX. Latin IV. German [1] VI. French I. Economics X. Economics [1] I. Ethics [2] II. Ethics [1] I. Mathematics, 2 II. Mathematics, 2 [2] III. Mathematics, 2	I. Latin, 3 VIII. Latin [2] X. German [1] XII. German II. French, 2 III. Eng. Literature [1] I. Mathematics, 1 II. Mathematics, 1 [2] III. Mathematics, 1 XII. Mathematics IX. Chemistry Zoology	I. Latin, 1 IX. Latin IV. German [1] VI. French I. Economics X. Economics [1] I. Ethics [2] II. Ethics [1] I. Mathematics, 2 II. Mathematics, 2 [2] III. Mathematics, 2	I. Latin, 3 [2] X. German [1] XII. German II. French, 2 III. Eng. Literature [1] I. Mathematics, 1 II. Mathematics, 1 [2] III. Mathematics, 1 XII. Mathematics Zoology	I. Latin, 1 IV. German Pub. Speaking (Sr.) I. Economics [1] I. Ethics [2] II. Ethics [1] I. Mathematics, 2 II. Mathematics, 2 [2] III. Mathematics, 2
10.	[1] VI. Latin [1] X. Latin [2] XII. Latin I. French, 1 [1] IV. French IX. Eng. Literature III. History [1] II. Philosophy [2] III. Philosophy VIII. Mathematics Descriptive Geom. I. Physics	[1] XI. Greek [2] XII. Greek [1] Dante in English I. Eng. Language, 2 VII. History VII. Economics IV. Psychology English Bible [2] XI. Mathematics [1] XIV. Mathematics VII. Physics I. Chemistry	[1] VI. Latin I. French, 1 [1] IV. French IX. Eng. Literature III. History [1] II. Philosophy [2] III. Philosophy VIII. Mathematics Descriptive Geom. I. Physics IV. Chemistry	[1] XI. Greek [2] XII. Greek [1] Dante in English I. Eng. Language, 2 VII. History VII. Economics IV. Psychology English Bible [2] XI. Mathematics [1] XIV. Mathematics VII. Physics I. Chemistry	[1] X. Latin [2] XII. Latin I. French, 1 [1] IV. French IX. Eng. Literature III. History [1] II. Philosophy [2] III. Philosophy VIII. Mathematics Descriptive Geom. I. Physics IV. Chemistry	Pub. Speaking (Jr.) VII. History English Bible [2] XI. Mathematics [1] XIV. Mathematics VII. Physics I. Chemistry

DAILY PROGRAM, 1913-1914—(Continued)

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
11.	I. German, 1 IV. Eng. Literature I. Eng. Language, 4 III. Economics I. Philosophy I. Psychology [1] V. Mathematics [2] VI. Mathematics Descriptive Geom. VI. Chemistry	I. Latin, 2 [1] XI. Latin [2] XX. Latin I. Greek IV. Greek I. German, 2 I. French, 2 I. Eng. Literature, 3 I. Eng. Language, 3 VI. Eng. Language IV. Economics XV. Chemistry Physiology	I.A Latin I. German, 1 IV. Eng. Literature III. Economics I. Philosophy I. Psychology [1] V. Mathematics [2] VI. Mathematics Descriptive Geom. VI. Chemistry [1] I. Biology, 1 [2] II. Biology, 1	I. Latin, 2 [1] XI. Latin [2] XX. Latin I. Greek IV. Greek I. German, 2 I. French, 2 I. Eng. Literature, 3 I. Eng. Language, 3 VI. Eng. Language IV. Economics XV. Chemistry Physiology	I. Greek I. German, 1 VIII. Eng. Literature I. Eng. Language, 4 III. Economics I. Philosophy I. Psychology [1] V. Mathematics [2] VI. Mathematics Descriptive Geom. VI. Chemistry	I. Latin, 2 I. German, 2 I. French, 2 Pub. Speaking (Soph.) IV. Economics [1] II. Chemistry
12.	[1] XV. Latin [2] XXI. Latin II. B German I. Eng. Literature V. History VI. Economics [1] III. Physics [2] IV. Physics XIV. Chemistry II. Geology	[1] II. Latin [2] III. Latin III. German Spanish VII. Eng. Language IX. Economics [2] Science & Religion VIII. Chemistry	[1] XV. Latin [2] XXI. Latin II.B German I. Eng. Literature, 1 V. Eng. Language V. History VI. Economics [1] III. Physics [2] IV. Physics [2] X. Chemistry XIV. Chemistry II. Geology [1] I. Biology, 1 [2] II. Biology, 1	[1] II. Latin [2] III. Latin III. German Spanish VII. Eng. Language IX. Economics [2] Science & Religion VIII. Chemistry	II.B German I. Eng. Literature, 1 V. Eng. Language V. History VI. Economics [1] III. Physics [2] IV. Physics [2] X. Chemistry II. Geology	
2.	[1] VI. German [2] VIII. German II.B, III., V., VII., XIII. Chemistry X. Physics [1] I. Biology [2] II. Biology	Ethics Seminary [2] Phys. Geography, 1 II., VIII., XI., XII. Physics	[1] VI. German [2] VIII. German II., VIII., X., XI., XII. Physics	[2] Phys. Geography, 1 II., VIII., XI., XII. Physics	[1] VI. German [2] VIII. German X. Physics II.B, III., V. Chem. [1] I. Biology, 2 [2] II. Biology, 2	
3.	III. Eng. Language II.B, III., V., VII., XIII. Chemistry [1] I. Biology [2] II. Biology	[1] VIII. Greek Ethics Seminary II., VIII., XI., XII. Physics [2] Phys. Geography, 2	Hygiene II., VIII., XI., XII. Physics	[1] VIII. Greek II., VIII., XI., XII. Physics [2] Phys. Geography, 2	II.B, III., V. Chem. [1] I. Biology, 2 [2] II. Biology, 2	

DAILY PROGRAM.

The order of lectures and recitations is set forth in the table given on pages 96 and 97. Roman numerals preceding the names of certain studies refer to the numbers of the courses as enumerated in the foregoing statement of courses of instruction. Arabic numerals, following the names of certain studies, indicate the sections into which the classes are divided. The figures [1] and [2] preceding the number of the course indicate respectively first and second half-year.

Laboratory courses in chemistry are held on Monday and Friday afternoons, in physics on Tuesday and Thursday afternoons, with extra periods as determined hereafter. For biology, see page 93.

EXAMINATION GROUPS.

No student is allowed to take more than one course in any of these groups, with the exception of those (bracketed together) which are not given in the same half-year. The following courses are not assigned to any group, and may be elected without limitation: XVIII., XIX. Latin; Hebrew; VI., VIII. German; Public Speaking; VI. History; VIII. Economics; III.A, IV. Philosophy; V. Psychology; II., VIII., XI., XII. Physics; II.B, III., V., VII., XI., XII., XIII. Chemistry; VII., VIII., IX., X. Biology; IV. Physical Education.

I.—*M.*, *W.*, *F.*, *at 8.*

II. Greek, *W.*, *F.*
VII. Greek.
III. French, *M.*, *W.*
I. History.
Political Science.
II. Psychology.
VII. Mathematics.

II.—*M.*, *W.*, *F.*, *at 9.*

VIII. Latin, *M.*, *W.*
{ X. German.
{ XII. German, *W.*, *F.*
III. Eng. Literature.
{ I. Mathematics.
{ III. Mathematics.
XII. Mathematics.
IX. Chemistry, *M.*, *W.*
Zoölogy.

III.—*M.*, *W.*, *F.*, *at 10.*

VI. Latin, *M.*, *W.*
{ X. Latin, *M.*, *F.*
{ XII. Latin, *M.*, *F.*
[1]I. French.
IV. French.
IX. Eng. Literature.
III. History.
{ II. Philosophy.
{ III. Philosophy.
VIII. Mathematics.
Descriptive Geometry.
I. Physics.
IV. Chemistry, *W.*, *F.*

IV.—*M.*, *W.*, *F.*, *at 11.*

I.A Latin, *W.*
IV. Eng. Literature, *M.*, *W.*
[2]VIII. Eng. Literature, *F.*
I. Eng. Language.
III. Economics.
{ I. Philosophy.
{ I. Psychology.
{ V. Mathematics.
{ VI. Mathematics.
VI. Chemistry.

[1] May be elected with any one course in this group.
[2] May be elected with IV. English Literature.

V.—*M.*, *W.*, *F.*, *at 12.*

XV. Latin, *M.*, *W.*
XXI. Latin, *M.*, *W.*
II.B German.
I. Eng. Literature.
V. Eng. Language, *W.*, *F.*
V. History.
VI. Economics.
III. Physics.
IV. Physics.
X. Chemistry, *W.*, *F.*
XIV. Chemistry, *M.*, *W.*
II. Geology.

VI.—*M.*, *W.*, *F.*, *at 3.*

III. Eng. Language, *M.*
[1]Hygiene, *W.*
General Biology, *M.*, *F.*
Botany, *M.*, *F.*

VII.—*T.*, *Th.*, *S.*, *at 8.*

B Greek, *Th.*
II.A German.
II. French.
VIII. History.
IV. Mathematics, *T.*, *Th.*
I.A Physics, *Th.*
Bacteriology, *T.*, *Th.*

VIII.—*T.*, *Th.*, *S.*, *at 9.*

I. Latin.
IX. Latin, *T.*, *Th.*
IV. German.
VI. French, *T.*, *Th.*
I. Economics.
X. Economics, *T.*, *Th.*
I. Ethics.
II. Ethics.
II. Mathematics.

IX.—*T.*, *Th.*, *S.*, *at 10.*

XI. Greek, *T.*, *Th.*
XII. Greek, *T.*, *Th.*
Dante in English, *T.*, *Th.*
VII. History.
VII. Economics, *T.*, *Th.*
IV. Psychology, *T.*, *Th.*
English Bible.
XI. Mathematics.
XIV. Mathematics.
VII. Physics.
I. Chemistry.

X.—*T.*, *Th.*, *S.*, *at 11.*

XI. Latin, *T.*, *Th.*
XX. Latin, *T.*, *Th.*
I. Greek, *T.*, *Th.*
IV. Greek, *T.*, *Th.*
[2]I. German.
VI. Eng. Language, *T.*, *Th.*
IV. Economics.
II.A Chemistry, *S.*
XV. Chemistry, *T.*, *Th.*
Physiology, *T.*, *Th.*

XI.—*T.*, *Th.*, *at 12.*

II. Latin.
III. Latin.
III. German.
Spanish.
VII. Eng. Language.
IX. Economics.
Science and Religion.
VIII. Chemistry.

XII.—*T.*, *Th.*, *at 3.*

VIII. Greek.
VI. Ethics, *T.*
Physical Geography.

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1 May be elected with General Biology and Botany.
2 May be elected with any one course in this group.

REQUIREMENTS FOR GRADUATION.

FRESHMAN YEAR.

I. FOR CANDIDATES FOR THE B. A. DEGREE.

Each student must elect not less than *fifteen* nor more than *eighteen* hours per week from the following courses, including I. English Language and Hygiene, which are required of all. The choice must include one three-hour course in Latin or Greek, and one three-hour course from the following: Latin, Greek, mathematics, a modern language.

	Hours per week.
I. English Language,	3
I. Latin,	3
I.A Latin,	1
B Greek,	1
I. Greek,	3
I., II., III. Mathematics, each,	1½
I. French, I. German, each,	3
II. French, II. German, each,	3
I. History,	3
I. Physics,	2 or 3
I.A Physics,	1
I. Chemistry,	1½ or 3
Physical Geography, General Biology, Botany, each,	1
Hygiene,	1

II. FOR CANDIDATES FOR THE B. S. DEGREE.

Each student must elect not less than *fifteen* nor more than *eighteen* hours per week from the following courses, including I. English Language and Hygiene, which are required of all:

	Hours per week.
I. English Language,	3
I., II., III. Mathematics, each,	1½
I. French, I. German, each,	3
II. French, II. German, each,	3

	Hours per week.
I. History,	3
I. Physics,	2 or 3
I.A Physics,	1
I. Chemistry,	1½ or 3
Physical Geography, General Biology, Botany, each,	1
Hygiene,	1

Of the following courses, such as are not presented for admission must be passed in college:

II. Mathematics, and either I. Mathematics or III. Mathematics. Advanced algebra may be presented on admission to college in lieu of either solid geometry or analytic geometry (I. and III. Mathematics).

I. French and II. French.

I. German and II. German.

SOPHOMORE, JUNIOR, AND SENIOR YEARS.

A student must elect in Sophomore and Junior years not less than *fifteen* nor more than *eighteen* hours per week of study, in Senior year not less than *thirteen* nor more than *eighteen* hours per week of study. In the Sophomore year rhetorical exercises are required, which are rated as the equivalent of one hour per week, to be included in the prescribed quota. The requirement for graduation is *sixty* hours of work, inclusive of rhetorical exercises. After the Freshman year there are no required studies, except Sophomore rhetorical exercises; but the election of studies must conform to the following requirements:

A. GROUP SYSTEM.

The departments of study are arranged in the following groups:

Group I.	Group II.	Group III.
Latin,	History,	Mathematics and
Greek,	Economics and Social	Astronomy,
German,	Science,	Physics,
Romance Languages,	Philosophy,	Chemistry,
English Literature,	Psychology,	Geology,
English Language.	Ethics and the Philosophy of Religion.	Biology.

A student's courses, including those of the Freshman year, must include at least *twelve* hours from Group I., and at least *nine* hours from each of Groups II. and III. The following courses offered in college, but taken in preparatory school and presented for admission, may be counted in making up this requirement: Intermediate French (II. French), Intermediate German (II. German), Advanced Mathematics (I. and II. Mathematics).

B. MAJOR STUDIES.

A student must elect a major study, the requirement for which is not less than *nine* nor more than *twelve* hours' work per week for a year in a department, the studies constituting the major to be elected with the approval of the senior instructor in the department in which the major is elected. The major may consist wholly of studies in one department, or partly of studies in cognate departments, so chosen as to make a consistent program. The following courses will not be allowed to count in making up a major:

I. English Language, the rhetorical exercises of the Sophomore year, Public Speaking, I. French, I. German, I. Chemistry (first-half), Botany, Physical Geography.

DEPARTMENTAL AND OTHER LECTURES, 1912-1913.

In addition to the Courses of Instruction named above, lectures are given each year under the auspices of various departments or associations connected with the University. Most of these lectures are open to the public. In 1912–13 were given the following:

DEPARTMENTAL LECTURES.

DEPARTMENT OF PHILOSOPHY.—Professor Rudolph Eucken, University of Jena: "The Necessity of Idealism."

DEPARTMENT OF HISTORY.—Professor Robert William Rogers, Drew Theological Seminary: "Some Recently Discovered Papyri in Egypt."

DEPARTMENT OF CHEMISTRY.—Professor Edward William Morley, Professor of Chemistry, Emeritus, Western Reserve University: "A Difficult Atomic Weight."

Professor Alexander Smith, Columbia University: "The Teaching of Chemistry."

Professor Martin Andre Rosanoff, Clark University: "The Dynamics of Esterification and the Steric Hindrance Hypothesis."

MIDDLETOWN SCIENTIFIC ASSOCIATION.

The Middletown Scientific Association, founded in 1871, has a membership of about one hundred, taken partly from the college and partly from the town. Regular meetings are held on the second Tuesday of every month during the college year, in the lecture-room of the John Bell Scott Memorial. During 1912–13 the following addresses were given:

Mr. Waterman S. C. Russell, Central High School of Springfield, Massachusetts: "Horseback Tours in Iceland."

Mr. Henry Cave, Springfield, Massachusetts: "Autogenous Welding and Cutting by Means of the Oxy-acetylene Torch."

Professor William North Rice: "The Two Nebular Theories."

Dr. Charles Benedict Davenport, Carnegie Institution: "The Influence of Heredity on History, with Special Reference to Connecticut."

Professor Henry Clapp Sherman, Columbia University: "The Pure Food Movement."

Professor John Charles Hubbard, Clark College: "Recent Progress in the Production of Light."

Professor Ansell Brooks, Brown University: "Aeronautics."

Professor George Matthew Dutcher: "The Science of History."

Mr. Enoch Burton Gowin: "The Working Class and the Labor Problem."

THE CLASSICAL CLUB.

The Classical Club was founded in 1906 by about twenty of the students taking classical courses. Meetings are held once a month during the college year. The following informal addresses were given before the club in 1912–13:

Professors Nicolson, Hewitt, and Heidel: "Why Study the Classics?"

Professors Heidel and Nicolson: "Translations from the Latin Poets."

Professor Heidel: "The Roman Camp, Saalburg."

LA SOCIÉTÉ FRANÇAISE.

A French club was founded in 1907 by a number of students taking courses in the department of romance languages. In the fall of 1909, the club was reorganized under the title of La Société Française, holding fortnightly meetings at the fraternity houses. The following addresses were given in 1912–13:

Professor Oscar Kuhns: "Mes Expériences Universitaires en Allemagne, en France, et en Italie."

Mr. Jacques Charbonnier, Yale University: "Genève."

Mr. William George Chanter, '14: "Trois Romans Français Modernes."

Mr. Felice Ferrero: "La Vallée d' Aoste."
Mr. Ralph Achilles Mautone: "Mes Expériences en France."

DER DEUTSCHE VEREIN.

A club was organized October 23, 1909, by undergraduates for further practice in the German language and the study of German culture. Those undergraduates are eligible for active membership (limited to twenty-five upper classmen and five Freshmen) who are taking or have taken courses in German more advanced than Course II. Members of the Faculty and graduate students may be elected to honorary membership. Meetings are held semi-monthly in rooms in East Hall, where the Verein maintains a German reading-room. Programs, arranged with the advice of the teaching staff in the department, include addresses by instructors in German in other institutions, papers by members, plays, etc. The following addresses were given in 1912–13:

Doctor August Mahr, Sheffield Scientific School: "Deutsches Universitätsleben im Gegensatze zum Amerikanischen."

Dr. Otto Michael of Berlin, Exchange Instructor in Princeton University: "Die Polenfrage in Deutschland."

Professor Julius Petersen, University of Basel, Switzerland, Exchange Professor in Yale University: "München, die Hauptstadt Bayerns."

Professor Carl F. Kayser, Normal College of the City of New York: "Das heutige Deutschland in Amerikanischer Beleuchtung."

Doctor Friedrich Schoenemann: "Die Deutsche Studentensprache und ihr Ursprung."

Professor John Albrecht Walz, Harvard University: "Bauopfer."

Professor George Moritz Wahl, Williams College: "Bismarck und seine Persönlichkeit."

Doctor Friedrich Schoenemann: "Dichter der Befreiungskriege."

Professor Robert Herndon Fife, Jr.,: "Deutschland und Frankreich in ihren gegenseitigen Beziehungen seit 1871."

Professor Gustave Gruener, Yale University: "Deutschlands politische Parteien."

GENERAL REGULATIONS.†

REGISTRATION.

Every student of the Junior, Sophomore, and Freshman classes is required to present to the Secretary of the Faculty, on or before the second Wednesday before Commencement, a list of the studies which he proposes to take the next college year. A fee of one dollar shall be paid by each student who fails to present such a list on or before that date. Every student is required to register at the beginning of the first term of each year, at which time changes may be made in the list of studies selected in June. At the same time, members of the Junior class are required to present the list of courses approved by the respective instructors for major studies. A fee of two dollars shall be paid by each student who does not register at the time appointed.

QUOTA OF STUDIES.

The requirement for graduation is sixty hours of work. Freshmen, Sophomores, and Juniors must take not less than fifteen nor more than eighteen hours of work per week, and Seniors not less than thirteen nor more than eighteen hours per week. No student will be allowed to take less than the minimum nor more than the maximum above specified, without special permission of the Administration Committee. A fee of five dollars per hour for the year is charged for all courses taken in excess of eighteen hours per week.

GRADES.

The general character of the work of each student in each study is indicated by his assignment to one of five grades, grade 1 denoting the highest excellence, and grade 5 failure to pass.

† Copies of the detailed Regulations may be obtained from the Secretary of the Faculty.

A student will not be graduated unless he attain a grade higher than fourth in sixty per cent of the work required for graduation.*

The Secretary of the Faculty sends to each student, within three weeks after Commencement, a report of his grades in all the studies which he has taken during the year.

EXAMINATIONS.

Regular examinations are held at the end of the year, and during a specified period at the mid-year. The allowance of absence from recitations is, in courses running through the year, twice the number of required exercises a week; in courses running through a half-year the allowance is proportionately diminished. A student who has taken the allowed number of absences in any course, exclusive of those excused by the President or by the Committee on Athletic and Musical Organizations, must thereafter present an excuse for every absence taken in that course, and in case he have one unexcused absence or deficiency in addition to the number allowed, he is excluded from examination and must take a special examination later, paying a fee of five dollars. In the application of this rule, absences from the first or the last exercise of a term in any study, or consecutive absences including the first or the last exercise, are each reckoned as two absences. Absences of the same nature before or after the Thanksgiving recess are each reckoned as two absences.

Special written examinations are held during the week commencing with the Tuesday before the beginning of the first term for all who have been excluded or excused from any of the examinations of the previous year.

For the benefit of students who have not been examined in second half-year subjects, special written examinations are held during the first few days after the Christmas recess, at times announced by the Secretary of the Faculty. For these examinations application must be made before the close of the first term. A fee of five dollars is charged for each examination.

* This rule does not apply to the work of the class of 1914 prior to the beginning of the year 1911-12.

For the benefit of Seniors who have been excluded or excused from any of the examinations during the preceding part of the year, and for members of the lower classes who have been excused from such examinations, special written examinations are held during the first few days after the Easter recess, provided that application for such examination is made by the candidate before the close of the second term.

A student who fails to pass a final examination in any study before that study is taken up by the next succeeding class is required, unless specially excused therefrom, to recite with that class, or, in the case of an elective study, to substitute some other elective therefor.

PROMOTION.

In order to be promoted from the Freshman class to the Sophomore class, a student must, at the close of the Fall special examinations, have a record of passing in ten hours of college work, and he must have attained a grade higher than fourth in not less than six hours' work. In order to be promoted from the Sophomore to the Junior class, a student must have a record of passing in twenty-five hours of college work, and he must have attained a grade higher than fourth in not less than fifteen hours' work. In order to be promoted from the Junior to the Senior class, a student must have a record of passing in forty-two hours of college work, and he must have attained a grade higher than fourth in not less than twenty-four hours' work. (These rules go into effect at the beginning of the year 1914–15.)

ENTRANCE CONDITIONS.

A student who fails to make up entrance conditions on or before the first day of November of the next college year is excluded from all recitations until the conditions are made up. A fee of five dollars is charged for an examination in entrance conditions after the regular examination for admission at the beginning of the student's second year in college.

PUBLIC WORSHIP.

Voluntary religious services under the direction of the Young Men's Christian Association are held weekly.

Devotional services, at which the attendance of students is required, are held in Memorial Chapel every week-day morning, and on Sunday afternoons.

The speakers at the Vesper Services of 1912–13 were as follows:

Reverend Rockwell Harmon Potter, B. D., Hartford.

President Albert Parker Fitch, Ph. D., Andover Theological Seminary.

Professor Norman E. Richardson, Ph. D., Boston University School of Theology.

Reverend David George Downey, D. D., '84, New York City.

Professor Robert William Rogers, Ph. D., Drew Theological Seminary.

Irving Bacheller, L. H. D., New York City.

Bishop Luther Barton Wilson, LL. D., New York City.

Reverend Elmer Addison Dent, D. D., New Haven.

Reverend Archey Decatur Ball, D. D., New York City.

Bishop Edwin Holt Hughes, LL. D., San Francisco, Cal.

President Ezra Squier Tipple, LL. D., Drew Theological Seminary.

Reverend Fred Winslow Adams, D. D., Schenectady, N. Y.

Reverend Willis H. Butler, D. D., Boston, Mass.

Reverend Ernest Gladstone Richardson, D. D., Bristol.

Bishop William Burt, D. D., LL. D., '79, Buffalo, N. Y.

President William Douglas Mackenzie, D. D., Hartford Theological Seminary.

Reverend William Ingraham Haven, D. D., '77, New York City.

Reverend George Clarke Peck, D. D., New York City.

Reverend Wallace MacMullen, D. D., New York City.

Professor Albert Cornelius Knudson, Ph. D., D. D., Boston University School of Theology.

Reverend Lauress John Birney, D. D., Dean of Boston University School of Theology.

Reverend Augustus Phineas Reccord, B. A., S. T. B., Springfield, Mass.

Reverend Charles Ellsworth Guthrie, D.D., Wilkes-Barre, Pa.
Reverend Leonard Colburn Murdock, D.D., '90, Scranton, Pa.
Professor William Joseph Thompson, Ph. D., D. D., Drew Theological Seminary.
Reverend Ralph Tyler Flewelling, Ph.D., Cambridge, Mass.
Reverend J. Lewis Hartsock, B. D., New York City.
Reverend Christian Fichthorne Reisner, D. D., New York City.
Reverend John Diehl Fox, D. D., Harrisburg, Pa.
Reverend Lucius Hatfield Bugbee, D. D., Malden, Mass.
Reverend John Brownlee Voorhees, D. D., Hartford.
Reverend Edward Arthur Elliott, D. D., Springfield, Mass.
Bishop William Franklin Anderson, LL. D., Cincinnati, Ohio.

LEAVE OF ABSENCE.

A student who desires excuse from college exercises on account of absence from town must apply to the President for permission to be absent, and, unless the circumstances of the case render it impracticable, such permission must be obtained before the student's departure.

STUDENT ORGANIZATIONS.

No student who has failed of promotion from the class below, no student who is on probation or under censure, no member of the Freshman class who has entrance conditions exceeding two units, no special student, no graduate student, and no Senior who is permitted to count the Senior year in fulfilment of the requirement of residence for the Master's degree, is allowed to take part, as a member of a University athletic team, in any athletic contest, or to appear in any public exhibition of any musical or dramatic organization, or to act as manager or assistant manager of any athletic, musical, or dramatic organization; and any student whose college work is unsatisfactory at any time during the college year may be debarred from taking part in such a contest or exhibition.† No member of the Freshman class is allowed to represent the University on athletic teams during the first half of the year.

† This rule goes into effect at the beginning of the year 1914-15.

THE ATHLETIC COUNCIL.

In 1903 the Trustees authorized the organization of an Athletic Council, composed of three representatives each of the Faculty, the alumni, and the undergraduates. The Council has general supervision over the athletic affairs of the college, subject to certain veto powers retained by the Faculty. It administers eligibility rules, except as regards scholarship, approves schedules, ratifies the election of captains and managers, and controls the finances of the several departments of athletics, through a financial secretary. The officers of the council for 1913–14 are: Seward V. Coffin, '89, President; John R. Holmes, '14, Vice-President; Professor Edgar Fauver, Secretary; Professor L. A. Howland, Financial Secretary.

EXPENSES.

The annual charges in the Assistant Treasurer's bill are as follows:—

Tuition, - - - - - - - - - - - -	$90 00
Incidentals, use of library and reading-rooms, etc.,	50 00
Total, - - - - - - - - - - - -	$140 00

A fee of two dollars is charged for I. Chemistry, and a fee of one dollar for General Biology and for Botany. For the laboratory courses in physics, chemistry, and biology, fees are charged which vary with the nature of the course and with the number of exercises elected per week. The fee for each exercise per week in practical physics, in practical biology, and in II. and XIII. Chemistry, is five dollars; in III., V., VII., and XI. Chemistry, eight dollars. Students electing the chemistry courses named are required in addition to make a deposit of five dollars, which is refunded at the close of the course after charges for breakage have been deducted.

A diploma fee of five dollars is charged to each student at graduation.

A fee of five dollars is required of every candidate for the Master's degree before his course of study can be approved by the Committee on Graduate Instruction.

A diploma fee of ten dollars is charged to each graduate student upon promotion to the Master's degree.

The college bills are payable soon after the beginning of each semester. Unless the bill for any semester is paid, or payment thereof guaranteed, on the day appointed, the student is liable to exclusion from recitations.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or payment thereof guaranteed.

A student who is absent from college on account of sickness, or for other cause, and who retains his place in his class, must pay the full college bills during his absence.

Board may be obtained in private families at prices varying from $3.75 to $5.00 a week. The college fraternities maintain clubs which supply board to their members at prices ranging from $3.50 to $5.00 a week. The price of board at the college dining hall is $3.00 a week.

Other expenses incident to college life vary with the habits and circumstances of the student. They are not, of necessity, so great as to be burdensome to persons in moderate circumstances. Instances have been extremely rare in which students of good ability and health have been compelled to leave college for want of money.

DORMITORY ACCOMMODATIONS.

The new North College, at the end of College Row, contains one hundred and one rooms that are available for students. The rooms are lighted by electricity, heated by steam, and provided with single beds, mattresses, chiffoniers, and desks. The prices indicated below include the care of the room. An extra charge for electric light is also made, the charge depending upon the electric power furnished. A diagram showing the location of rooms, with dimensions, also a price-list giving number of occupants allowed in each room, will be sent upon application to the Secretary of the Faculty.

Rooms are rented also in Observatory Hall and in East Hall, at a lower rate than is the case in North College. The rooms in East Hall are not furnished. Most of the rooms in both buildings are lighted with either gas or electricity, for which an additional charge is made.

Each student renting a room must make a deposit of ten dollars ($10) at the time the assignment is made, and must sign a contract binding him to pay the rent of the room and to occupy the room in person through the entire college year. This deposit will be forfeited in case the student fails to return to college or in case he does not enter; otherwise the deposit will be credited on his bill for room-rent.

Students are permitted to take lodgings in town, but the places in which they room or board are in all cases subject to the approval of the Faculty. If any of the rooms in the college are thus left vacant, the rent of such rooms may be charged to holders of free scholarships who room in town.

Application for rooms should be made to the Secretary of the Faculty.

PRICES OF COLLEGE ROOMS.

North College (Furnished Rooms).

No.	Rent.	Heat.	No.	Rent.	Heat.	No.	Rent.	Heat.
1	$110	$24	35	$60*	$16	69	$60*	$20
2			36	80	20	70		
3	80	20	37	110	24	71	125†	30
4	50	16	38			72		
5	100	24	39	110	24	73	50	16
6			40			74	50	16
7	60*	20	41	50	16	75	110	24
8	50	16	42	50	16	76		
9	80	20	43	125†	30	77	110	24
10	125†	30	44			78		
11			45			79	80	20
12			46	60*	20	80	60*	20
13	110	24	47	125†	30	81	100	24
14			48			82		
15	50	16	49			83	100	24
16	50	16	50	50	16	84		
17	125†	30	51	50	16	85	60*	20
18			52	110	24	86	80	20
19			53			87	110	24
20	125†	30	54	110	24	88		
21			55			89	110	24
22			56	60*	16	90		
23	50	16	57	100	24	91	50	16
24	50	16	58			92	50	16
25	110	24	59	80	20	93	100	24
26			60	110	24	94		
27	110	24	61			95	50	20
28			62	110	24	96	100	24
29	80	20	63			97		
30	60*	16	64	50	16	98	50	16
31	100	24	65	50	16	99	50	16
32			66	125†	30	100	110	24
33	100	24	67			101		
34			68					

* Rent $75, if occupied by two persons.

† Rent $150, if occupied by three persons.

Observatory Hall (Furnished Rooms).

No.	Rent.	Heat.	Remarks.
1	$55	$12	Rent $60, if occupied by 2 persons.
2 } 4 }	90	20	" 100, " " 3 "
3	45	12	
6	50	12	" 55, " " 2 "
7	50	12	" 55, " " 2 "
9	50	15	" 55, " " 2 "
10	50	12	" 55, " " 2 "
11	80	15	" 90, " " 2 "
12	90	20	" 100, " " 3 "
13	90	16	" 100, " " 3 "
14	90	18	" 100, " " 3 "
15	50	15	" 55, " " 2 "
16	55	15	" 60, " " 2 "
17	50	15	" 55, " " 2 "
18	45	12	
19	100	18	" 110, " " 3 "
20	100	18	" 110, " " 3 "

East Hall (Unfurnished Rooms).

No.	Rent.	Heat.	No.	Rent.	Heat.	No.	Rent.	Heat.
1	$85	$16	10	$75	$16	16	$40	$12
2	85	16	11	75	16	17	45	12
5 } 6 }	60	15	12	75	16	18	50*	15
			13	45	12	19	45	12
8	45	12	14	50	16	20	45	12
9	75	16	15	50*	15	21	35	12

* Rent, $65 for three persons.

COLLEGE DINING HALL.

In order to reduce the expense of a college course, the college maintains a dining hall, where board may be obtained at a low rate. There is accommodation for about one hundred boarders. The college is responsible for the general management, the details being in charge of a matron who is responsible to a college officer. Bills are paid into the college treasury, and the college assumes all financial responsibility. The rate of board is at present three dollars a week.

MATERIAL EQUIPMENT.

NEW BUILDINGS.

WILLBUR FISK HALL, opened in the summer of 1904, is occupied by the departments of language, literature, history, economics, and philosophy. It is of Portland brownstone and practically fireproof, 113 by 62 feet in dimensions, three stories in height above a lofty and well-lighted basement story, and cost one hundred and fourteen thousand dollars. It contains ten private studies for professors in charge of departments, fourteen lecture-rooms, seven commodious seminary rooms, and a well-appointed psychological laboratory.

In the planning and construction of the building careful attention was paid to matters of heating, lighting, ventilation, and drainage. It is believed that in dignity of external appearance, interior finish, convenience of arrangement, and adaptation at all points to the uses for which it is designed, it is a model college building.

THE JOHN BELL SCOTT MEMORIAL, a new Physical Laboratory, was completed in 1904 at a cost of one hundred and eighteen thousand dollars. It is the gift of the late Charles Scott and of his son, Charles Scott, of the class of 1886, in memory of John Bell Scott, of the class of 1881, who died of disease contracted while serving as Chaplain of the U. S. Cruiser *St. Paul* during the Spanish-American war.

It is a beautiful and imposing building constructed of Harvard brick and Indiana limestone. Its main part has a frontage of 102 feet and a depth of 51 feet, and in the rear is an extension 50 by 30 feet. The building consists of basement, three stories, and attic, except that the third story is omitted in the extension. The main lecture-room contains nearly two hundred seats, and there is a smaller lecture-room capable of seating about forty persons, which is at present fitted up for the use of the class in descriptive geometry. The building

contains twenty-two rooms for experimental work, elementary and advanced, in addition to lecture and apparatus rooms, photographic dark-rooms, storerooms, offices, a library, and a room for draughting and computing. There is also a tower 4 by 6 feet in cross section, with a height of 54 feet in the clear, which can be used for experiments requiring great vertical extension.

The building is equipped with an exceptionally extensive and complete system of wiring for the purpose of distributing to all points, for experimental use, electric currents from the city mains as well as from the storage battery and generators in the basement. For the most part the interior is finished with exposed brick walls, painted a light tint, and with exposed floor timbers and pipe work.

THE NEW NORTH COLLEGE was occupied as a dormitory in January, 1908. It is of Portland brownstone, practically fireproof, 152 by 48½ feet in dimensions, four stories in height above a basement, and cost about $135,000. The building contains one hundred and one rooms, arranged to satisfy varying demands. There are lavatories in the basement and on the third floor, supplied with tub and shower baths. The floor construction is of reinforced concrete throughout, and the stairs of iron and slate. The building is heated by steam from the central heating plant, and all rooms are lighted by electricity. All partitions in the basement, corridors, and stair-wells are of hollow terracotta brick.

SOUTH COLLEGE, which formerly was used for recitation rooms and studies, has been remodeled to serve as an administration building. The entrance to the building has been raised and a new flight of steps constructed as an approach. The old wooden staircases have been replaced by new ones of iron, with slate treads. The first floor is used as a storeroom by the library. The second and third floors contain private offices for the President and the Secretary of the Faculty, a stenographer's room and a storeroom, and a spacious room, finished in quartered oak, used for Faculty meetings and as a general office. On the fourth floor are a number of two-room suites for dormitory use.

SWIMMING POOL. Through the generosity of a friend of the college, an addition has been built on the east end of the gymnasium in which a swimming pool has been constructed, measuring sixty by thirty feet. The cost of the structure is approximately forty thousand dollars. The pool was opened for use in January, 1914. A more detailed description will be found on page 122.

LIBRARY AND READING-ROOMS.

THE LIBRARY in Rich Hall contains about ninety-four thousand five hundred volumes. The library is open every week-day of the college year from 8 A. M. to 10 P. M. Students are allowed direct access to the shelves. Copies of the library rules may be obtained from the Librarian.

The increase of the Library is provided for from the income of the following funds, amounting to $100,887:—

THE ALUMNI LIBRARY FUND, $37,402, the aggregate of numerous gifts from alumni and friends of the University.

THE HUNT LIBRARY FUND, $31,922, established by Rev. Albert Sanford Hunt (B. A., 1851, D. D., 1873), of Brooklyn, N. Y.

THE WILCOX LIBRARY FUND, $21,281, established by Mrs. Harriet H. Wilcox, of Brooklyn, N. Y.

THE WISE LIBRARY FUND, $5,066, for the purchase of scientific books, established by Rev. Daniel Wise, D. D., of Englewood, N. J.

THE MEAD LIBRARY FUND, $5,064, established by Miss Elizabeth J. Mead, of Stamford, Conn.

THE GONA LIBRARY FUND, $152, established by a friend of the department of chemistry for the purchase of books for that department.

In the basement of Fisk Hall is a reading-room, provided with daily and weekly newspapers. Another reading-room, on the second floor of Rich Hall, contains the current issues of the most important magazines and reviews, literary and scientific, American and foreign.

ASTRONOMICAL OBSERVATORY.

THE OBSERVATORY is used for purposes of instruction, and is well equipped therefor. Students in astronomy have frequent opportunities to examine the most interesting celestial objects through the telescope; and members of the class in practical astronomy are instructed in the theory and use of all the instruments in the observatory.

The principal instruments are an equatorial of twelve inches aperture, by Alvan Clark & Sons, provided with a filar micrometer, a polarizing photometer, and spectroscopes, solar and stellar, two of which have very high dispersive power; a transit instrument of three inches aperture, with collimators of the same aperture, and adapted to use as a zenith telescope; a prime vertical instrument of the same size; sextants; two astronomical clocks; a chronometer; and a chronograph.

A gift was received in 1903 from the late Joseph Van Vleck of Montclair, New Jersey, to be used toward the erection and equipment of a new astronomical observatory. This gift, with its accumulations, exclusive of money spent in the purchase of a site for the building, now amounts to about $57,900.

LABORATORIES AND APPARATUS.

THE LABORATORY OF EXPERIMENTAL PSYCHOLOGY occupies four rooms in Fisk Hall: a general laboratory and lecture-room, a smaller research laboratory, a construction and apparatus room, and a physiological dark-room. These rooms were designed expressly for their present use and contain electrical and other fittings of the most approved sort. The equipment of the laboratory is being increased to meet the demands of research as well as for more adequate class-room demonstration and elementary laboratory exercises. Among the more recent acquisitions may be mentioned: a set of preparations of the brain and spinal cord, a pendulum-tachistoscope, a projection apparatus designed for experimental purposes as well as for the projection of lantern slides, a mirror exposure apparatus of new design for studies in the psychology of reading, a microscope sphygmograph and registering device, and an Einthoven spring-galvanometer. The latter combine to give the benefit of a complete "heart-station."

THE PHYSICAL LABORATORY occupies the John Bell Scott Memorial, for a description of which see page 116. It is equipped with apparatus for the performance of the experiments usually undertaken in undergraduate courses, and offers also opportunity, in certain lines, for advanced work on the part of graduate students. In electricity, particularly, facilities are afforded for instruction in the use of the most important electrical instruments and machines, and for extended tests and investigations, especially in the line of alternating currents, electric oscillations, and discharge through gases.

In addition to the electrical equipment of the Scott Laboratory the dynamo-room in the boiler house contains a 25-horse-power Ball engine, and a 17½-kilowatt direct-current dynamo.

THE CRAWFORD MEMORIAL FUND. A fund of five thousand dollars has been given by Hanford Crawford, of St. Louis, in memory of the Reverend Morris D'Camp Crawford, who was a trustee of Wesleyan University from 1871 to 1896. The proceeds of this fund are to be devoted to the purchase of apparatus for the department of physics, or to the promotion of research in the same department.

THE CHEMICAL LABORATORY finds accommodation on the lower floors of Judd Hall. Two lecture and recitation rooms provide facilities for class instruction. The larger of the two is capable of seating one hundred and ten persons.

The laboratory courses are likewise accommodated in two rooms, one of which is reserved exclusively for the use of students in quantitative analysis. In the other, which is the general laboratory room, there are desks for more than fifty students.

The very valuable library of chemical periodicals collected by the late Professor Atwater is housed in the chemical laboratory and is accessible to instructors and students alike.

THE CRYOGENIC LABORATORY furnishes facilities for demonstration and for research at low temperatures. Its main equipment consists of a liquid-air plant, including an electric motor, a Norwalk compressor which delivers about twenty cubic feet of air per minute at a pressure of 3,000 pounds, and a liquefier. The capacity of the liquefier is about five liters of liquid-air per hour.

THE BIOLOGICAL LABORATORY occupies six rooms in Judd Hall, and is capable of accommodating about thirty students. Five rooms are used for general laboratory purposes, of which two are devoted to miscellaneous laboratory work, one to general laboratory work of large classes, one to coarse dissection, and one to bacteriological work. The laboratory is equipped with all the apparatus necessary for elementary biological work, and is provided with an abundance of material for anatomical and histological study. The general laboratory room contains a type collection illustrating all orders of animals, and students are allowed to use the large museum collection for comparison and direct study. The laboratory is especially well equipped for bacteriological work. Advanced students of the department have also the advantage of the use of the State Bacteriological Laboratory, located in the John Bell Scott Memorial.

THE AMOS JAY GIVENS BIOLOGICAL FUND.—A fund of twenty-five thousand dollars has been given by Amos Jay Givens, M. D., LL. D., of Stamford, the income of which is to be used for the equipment and maintenance of the department of biology, or for the promotion of research in that department.

THE MACHINE SHOP occupies the west room in the boiler house, and is in charge of a skilled mechanician. It is equipped with first-class power lathes, planer, shaper, etc., and affords ample facilities for the construction of new apparatus, for purposes both of demonstration and of investigation; for the repair of apparatus already in use; and, to a limited extent, for the instruction of advanced students who have exceptional mechanical aptitude.

MATHEMATICAL MODELS. This collection, the gift of Ebenezer Hill (B. A., 1870), of South Norwalk, Conn., comprises a complete set of the models made by Brill of Darmstadt, for illustration in the higher branches of mathematics, as well as in mathematical physics and crystallography. The models are arranged in a series of cases in the mathematical reading-room in Observatory Hall.

GYMNASIUM AND ATHLETIC FIELD.

THE FAYERWEATHER GYMNASIUM is located on the north side of the rear campus, parallel with Wyllys Street. Its dimensions are 55 by 120 feet.

The basement contains a baseball cage, a large room for shower baths, a room adjacent for rubbing and drying, a large locker room, and toilet rooms. On the first floor is the main hall of the gymnasium, which is well equipped and affords ample room for every variety of gymnastic exercise. The director's office and a room for visiting teams are also on the first floor. The running track is suspended from the roof, above the main floor. On the second floor is a trophy room, used also as a committee room by the various athletic organizations. Special attention has been paid to ventilation, drainage, and lighting, and the building is believed to contain the best features of a modern gymnasium.

An addition to the main building, completed in January, 1914, contains a swimming pool measuring sixty by thirty feet. The pool is lined with white tile, with lanes in the bottom marked in blue, and is equipped with a terracotta life-rail and gutter, with markings showing depth and distances. The walls and the walk around the pool are of white tiles. The pool is nine and a half feet deep at the east end, and four feet deep at the west end. There is a gallery at the west end, entered from the main floor of the gymnasium. The pool is lighted by large windows at the east end, and by windows on the sides. Artificial lighting is furnished by a system of reflected light. Provision is made for a system of refiltering, and the pool is in every way sanitary.

Exercise in the gymnasium and on the athletic field is required of the Freshman class three hours a week for the year, and of the Sophomore class in the gymnasium three hours a week from Thanksgiving until the end of the winter term. Elective work in the gymnasium is offered to the Junior and Senior classes.

THE ANDRUS FIELD lies in the rear of the main line of college buildings, just south of the gymnasium. A quarter-mile cinder track, with a "straight-away" of 100 yards, encircles one portion of the field, within which ample room is

afforded for baseball and field and track athletics. Football is played in another part of the field which has recently been improved for the purpose. An outdoor board track has been built by one of the college fraternities in memory of Jesse Lyman Hurlbut, Jr., class of 1900. It is about thirteen laps to the mile, and is banked at the corners. The entire field, covering seven acres, provides sufficient space for class and 'varsity teams to practise at the same time. Its proximity to the college enables the whole student body to keep in touch with the training in all branches of athletics, and affords the teams an opportunity to use the dressing-rooms and baths reserved for them in the gymnasium.

At the southern end of the field is a covered grand stand, capable of seating four hundred persons.

MUSEUM.

THE MUSEUM OF NATURAL HISTORY AND ETHNOGRAPHY occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to their educational use, and are freely accessible to students.

The nucleus of the departments of zoölogy and botany was formed by the Shurtleff collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The zoölogical department received in the years between 1872 and 1881 most important accessions in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland also added large and valuable collections. Valuable collections of insects were presented by Richard L. de Zeng in 1896, and by Mrs. E. K. Hubbard in 1898. In 1908 a fine collection of birds' nests, and a collection of alcoholic reptiles and amphibians, from Portland and Cromwell, was received from Mr. Charles H. Neff. At the death of Mr. Neff in 1911, his entire collection came as a legacy to the museum. The collection is rich in skins, mounted specimens, and eggs

of the birds of Portland and vicinity. The zoölogical department includes about thirteen thousand species. The vertebrata of North America, the marine invertebrata of New England, and the mollusca in general, are especially well represented.

The herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the university in 1879. The herbarium of Rev. Merrill Hitchcock, B. A., including about 700 specimens, of which about 200 are from Connecticut, was presented to the museum in 1908.

The mineralogical department includes about three hundred and fifty species, and a much larger number of varieties. The Franckfort collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated are well represented by collections commenced by the labors of Professor Johnston (1835–1868), and largely increased in later years. Important accessions were obtained in 1899 by collecting trips to Nova Scotia and to Herkimer County, N. Y. The Sheldon collection, purchased in 1904, includes many beautiful and valuable specimens.

The geological department includes collections in lithology, physical geology, and paleontology. The lithological collection received in 1897 a valuable accession in the gift of a set of the educational series of rock specimens described in Bulletin No. 150 of the U. S. Geological Survey, presented by the Survey. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique. A valuable collection of Tertiary fossils was received in 1887 from the Smithsonian Institution, in exchange for duplicate shells from the Shurtleff collection. The collections in paleontology have been very largely increased since 1893 by the work of the late curator, S. Ward Loper, M. A., in the vicinity of Middletown, at Valcour Island, Lake Champlain, in western Maryland, in the vicinity of Chattanooga,

Tenn., Cañon City and Florissant, Col., and Fossil, Wyo., and in Nova Scotia. Especially important among these accessions are the collections of fossil fishes and plants from the Triassic shales of the Connecticut valley, and of Tertiary fishes and plants from Fossil, Wyo., and Tertiary plants and insects from Florissant, Col. A choice collection of European fossils, including a number of beautiful specimens from the lithographic limestone of Solenhofen, was received in 1895 from the University Museum of Munich, in exchange for American fossils. The private collection of Mr. Loper, purchased for the museum in 1900, is very rich in fossil fishes and plants from the fossiliferous shales of the vicinity of Middletown.

The ethnographical department is especially rich in specimens illustrating the life of the aborigines of North America. Important contributions of pottery, casts of implements, models of dwellings, and other objects, have been received from the Smithsonian Institution. A very valuable collection of objects from burial mounds near Chattanooga, Tenn., was deposited in the museum in 1896 by A. R. Crittenden, and has since then been purchased. The private collection of Mr. Loper, purchased in 1903, contains many interesting Indian relics from the vicinity of Middletown. The collection of local Indian relics has been greatly increased by the legacy of Charles H. Neff in 1911. The department also possesses a valuable collection of pottery from the guano beds of Peru, presented by Joseph S. Spinney; a collection of Mexican antiquities, presented by Hon. Arnold Shanklin, United States Consul General in Mexico; an interesting collection of weapons and other objects from the South Sea Islands; a collection of relics from Assuan, Egypt, presented by Clarence S. Wadsworth, B. A.; and valuable collections of objects illustrative of Chinese life and customs, presented by Rev. Marcus L. Taft, D. D., Mrs. W. W. Wilcox, Rev. John Gowdy, D. D., and Rev. Joseph Beech, D. D. The collection of coins numbers about 4,500, exclusive of duplicates. Included in this number is a collection of about 1,800 Chinese coins, some of which are ancient and very rare, presented by Rev. Marcus L. Taft, D. D. Other valuable collections of Chinese coins have been received from Rev. John Gowdy, D. D., and Rev. Joseph Beech, D. D. A valuable collection of Greek

and Roman coins and facsimiles of such coins, historical medals, and copies of such medals, was presented to the museum in 1906 by Stephen H. Olin, LL. D. Additional specimens subsequently presented by Dr. Olin make the number of specimens in this collection more than 600. The greater part of the ethnographical collection is at present arranged in the lower hall of the museum, with the collections in mineralogy and geology. The coins (with the exception of the Olin collection and certain other special collections placed on exhibition in the museum) are kept in a case in the classical seminary room in Fisk Hall, where they can be seen by students and others on special application.

The following is an approximate statement of the number of specimens in the various departments of the museum:—

DEPARTMENT OF ZOÖLOGY.

Mammals—skins mounted and unmounted,	225
alcoholic,	50
skulls and skeletons,	110
Birds—skins mounted and unmounted,	2,000
nests and eggs,	1,600
Reptiles,	600
Amphibians,	200
Fishes,	2,100
Insects—pinned and alcoholic,	6,500
nests, borings, etc.,	50
Crustacea,	1,500
Worms,	1,800
Mollusks—shells,	90,000
alcoholic,	4,000
Echinoderms,	1,000
Coelentera,	1,700
Sponges and protozoa,	150

DEPARTMENT OF BOTANY.

Plants in herbarium,	11,400
Specimens of wood,	400
Miscellaneous botanical specimens,	1,100

DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks,	22,000
Fossils—Paleozoic,	11,500
Mesozoic,	3,700
Cenozoic,	3,000

DEPARTMENT OF ETHNOGRAPHY.

Miscellaneous ethnographic specimens,	4,400
Coins,	6,800

The museum is open to the public on Wednesday and Saturday afternoons.

SCHOLARSHIPS.

TUITION SCHOLARSHIPS.

Each year the Trustees place at the disposal of the President, for the benefit of needy and worthy students, a sum of money which is used to pay, in whole or in part, the charge for tuition.

Perpetual scholarships established by John M. Howe, Ralph Mead, James Strong, and Charles Woodbury have been transferred by their heirs to the University. These scholarships, which are at the disposal of the President, exempt the holders from the charge for tuition.

In addition to these free tuition scholarships are the following:—

THE SQUIRE SCHOLARSHIP.

This scholarship was founded by Hon. Watson C. Squire (B. A., 1859, LL.D., 1911), of Seattle, Wash. In accordance with its provisions, the income of $8,199 is awarded to that member of the Senior class who passes the best examination in Greek, provided that the successful candidate devote the ensuing year to classical study, in residence in the University, or in connection with travel or residence abroad, at his option, subject to the approval of the Committee on Graduate Instruction.

THE LOVELAND SCHOLARSHIP.

This scholarship was founded by Miss Louisa Loveland. The income of $2,697 is available, at the discretion of the Faculty, for the use of a deserving student who needs pecuniary assistance. For this scholarship only such students as intend to devote themselves to the work of the Christian ministry in the Methodist Episcopal Church can be candidates.

THE JOHN EVANS SCHOLARSHIP.

This scholarship was founded by Mrs. Ann Evans in memory of her husband. The income of $2,149 is given annually to that member of the Senior or Junior class who is named by the Board of Trustees, or by some authority to whom they may delegate the nomination. For this scholarship only such

students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates.

SCHOLARSHIP FUNDS.

The income of the following scholarship funds is available, at the discretion of the President, to pay, in whole or in part, the tuition of deserving students who need pecuniary aid:

The Frank S. Jones Scholarship Fund, $1,082, founded by Frank S. Jones, of Brooklyn, N. Y.

The Billings Scholarship Fund, $3,738, founded by William Perry Billings, of Kingston, Pa.

The Shonk Scholarship Fund, $25,645, founded by John J. Shonk and Mrs. George W. Shonk, of Plymouth, Pa., in memory of Hon. George W. Shonk (B. A., 1873).

The Starks Scholarship Fund, $1,091, founded by Mrs. Elizabeth B. Starks, of Troy, N. Y.

The Philip Reynolds Scholarship Fund, $1,090, founded by Philip Reynolds, of Brockton, Mass.

The Connell Scholarship Fund, $3,164, founded by Hon. William Connell, of Scranton, Pa.

The Shepherd Scholarship Fund, $3,201, founded by James G. Shepherd, of Scranton, Pa.

The Swift Scholarship Fund, $12,007, founded by Mrs. Annie M. Swift, of Chicago, Ill., in memory of her husband, Gustavus F. Swift.

The George G. Reynolds Scholarship Fund, $2,632, founded by Hon. George G. Reynolds (B. A., 1841, LL.D., 1871), of Brooklyn, N. Y.

The Cyrus D. Jones Scholarship Fund, $5,199, founded by Cyrus D. Jones, of Scranton, Pa.

The Harriet Townsend Reynolds Scholarship Fund, $2,630, founded by Hon. George G. Reynolds (B. A., 1841, LL. D., 1871), of Brooklyn, N. Y., in memory of his wife.

The Frank Reynolds Scholarship Fund, $2,630, founded by Hon. George G. Reynolds (B. A., 1841, LL.D., 1871), of Brooklyn, N. Y., in memory of his son, who graduated in 1868.

The Abigail Pennoyer Reynolds Scholarship Fund, $2,599, founded by Hon. George G. Reynolds (B. A., 1841, LL.D., 1871), of Brooklyn, N. Y., in memory of his mother.

The Samuel D. Hubbard Scholarship Fund, $10,436, founded by Miss Jennie M. Clarke, of Middletown, in memory of her uncle, Honorable Samuel Dickinson Hubbard, for many years a trustee of Wesleyan University.

The Montgomery Scholarship Fund, $1,021, founded by the Rev. John E. Adams, D. D., of Patchogue, N. Y., trustee of the Jane P. Fitch Benevolent Fund, in memory of Rev. James Montgomery.

The Mead Scholarship Fund, $2,318, founded by Miss Elizabeth J. Mead, of Stamford, in memory of her father, Rev. Nathaniel Mead.

The Lewis Gunn Scholarship Fund, $2,534, founded by Mrs. Mary C. Holman, of Hopkinton, Mass., and Mrs. Lillie G. Smith, of Washington, Conn., in memory of their father, Rev. Lewis Gunn.

The Jane D. Boardman Scholarship Fund, $10,091, founded in memory of Mrs. Jane D. Boardman, of Middletown, by the executors of her estate, Hon. Frank B. Weeks, of Middletown, and Dr. Joseph H. Townsend, of New Haven.

The Walter Hubbard Scholarship Fund, $40,337, founded by Walter Hubbard, of Meriden.

The Butler Scholarship Fund, $5,000, founded by Seth H. Butler and his sons, Abbott G., Earle C., and Dale D. Butler, all of Middletown.

The Alexander Montague Atherton Scholarship Fund, $5,000, founded by Mrs. J. B. Atherton, of Honolulu, Hawaii, in memory of her son, who graduated in 1897.

LOAN FUND.

Besides the scholarships above mentioned, there is a small fund from which loans are made to deserving students in the Junior and Senior classes. These loans bear a moderate rate of interest and are payable usually after graduation.

COLLEGE HONORS.

PRIZES.

THE JOSEPH D. WEEKS PRIZE.—A prize of fifteen dollars is awarded for the best essay on some specified subject in the department of economics. The subject for the essay of 1914 is: The Currency Act of 1913. The essays must be left with the head of the department on or before the first Monday in June (June 1, 1914).

THE PEIRCE PRIZE.—A prize of ten dollars, the income of a fund given by Rev. Bradford K. Peirce, D. D., is awarded for excellence in natural science. It will be given in 1914 upon a special examination based on Course I. in chemistry. The subject of the examination in 1915 will be biology; in 1916, geology.

THE PHI BETA KAPPA PRIZE. — A prize of twenty-five dollars, the gift of the Connecticut Gamma of Phi Beta Kappa, is awarded for excellence in Latin. It will be given in 1914 upon a special examination on Cicero's Letters.

THE G. BROWN GOODE PRIZE.—A prize of ten dollars, the gift of Mrs. G. Brown Goode, is awarded for the best original investigation in the department of natural history.

THE JOHN BELL SCOTT PRIZE.—A prize of forty-five dollars, the income of a fund given by the late Charles Scott, is awarded for excellence in the modern languages. It will be given in 1914 for the best essay on Romanticism in French Literature. In 1915 the prize will be given for special work in the department of German.

THE GIFFIN PRIZE.—A prize of twenty dollars, the income of a fund given by Mrs. Giffin in memory of her husband, Rev. Charles Mortimer Giffin, D. D., is awarded for the best essay, by a member of the Senior class who is preparing to enter the Christian ministry or some other form of Christian

work, upon some topic in the general field of the philosophy of religion. Originality of style and freshness of thought are considered in making the award. The topic should be chosen in consultation with the Professor of Ethics, and the essay should be handed to him on or before the third Monday in May (May 18, 1914).

No person who has once taken either the Joseph D. Weeks, the Phi Beta Kappa, or the G. Brown Goode prize, may compete for it again.

THE WEEKS PRIZE.—A prize of fifteen dollars is awarded for excellence in modern philosophy. It will be given in 1914 for the best examinations in Courses II. and III. in philosophy, and for additional work to be assigned by the instructor.

THE CAMP PRIZE.—A prize of twenty-five dollars, the income of a fund given in memory of Samuel T. Camp, is awarded for excellence in English literature. It will be given in 1914 upon a special examination in Course I. in English literature.

THE JOHNSTON PRIZE.—A prize of twenty-five dollars, the gift of Rev. David G. Downey, D. D., in memory of Professor John Johnston, is awarded for excellence in electricity. It will be given in 1914 upon a special examination based on the first half of Course VII. in physics.

THE SPINNEY PRIZE.—A prize of fifteen dollars is awarded for excellence in Greek. It will be given in 1914 for special work based in part on the first half of Course II. in Greek.

THE RICE PRIZE.—A prize of twenty dollars, given in memory of Rev. William Rice, D. D., is awarded for excellence in mathematics. It will be given in 1914 upon an examination based on Course VII. in mathematics.

THE WALKLEY PRIZE.—A prize of twenty dollars, the income of a fund given by Webster R. Walkley, D.C.L.—*in memoriam* David Hart Walkley, born April 23, 1857; graduated June 27, 1878; died September 16, 1878—is awarded for excellence in psychology. It will be given in 1914 for the best examination on the work of the elementary course in psychology, including the references and class experiments.

Students who compete for either the Weeks, the Camp, the Johnston, the Spinney, the Rice, or the Walkley prize must do so during the year in which they regularly pursue the course or courses on which the examination for the prize is based.

THE WISE PRIZE.—A prize of fifteen dollars, the income of a fund given by Rev. Daniel Wise, D. D., is awarded to that member of the Senior class who excels in ethics. It will be given in 1914 to that member of the Senior class who presents the best paper on: The Intuitional Theory of Ethics.

THE PRENTICE PRIZE.—A prize of twenty-five dollars, given by Mrs. Elizabeth Brooks Prentice in memory of Professor George Prentice, is awarded to that member of the Senior class who excels in German. It will be given in 1914 upon a special examination on the history of German literature from the earliest beginnings to the end of the sixteenth century.

THE SHERMAN PRIZE.—A prize of ten dollars, the income of a fund given by Rev. David Sherman, D.D., is awarded this year to that member of the Freshman class who excels in Greek. It will be given upon a special examination based on Course I. in Greek. The subject of the examination in 1915 will be mathematics; in 1916, Latin.

THE AYRES PRIZE.—A prize of forty-five dollars, the income of a fund given by Daniel Ayres, M. D., LL.D., is awarded to that member of the Freshman class who is found upon a special examination, held shortly after the beginning of the college year, to have attained the highest excellence in the following studies: Latin, Greek, English, ancient history, and mathematics.

THE RICH PRIZE.—A prize of thirty dollars, the income of a fund given by Isaac Rich, in memory of his wife, is awarded to that member of the Senior class whose oration at Commencement is deemed best in composition and delivery. These orations must not exceed twelve hundred words in length, and must be left with the Professor of English Literature on or before the second Tuesday preceding Commencement (June 9, 1914).

THE OLIN PRIZE.—A prize of eighty-five dollars, the income of a fund given by Mrs. Julia M. Olin, and increased by Stephen Henry Olin, LL.D., is awarded to that member of the Senior class who excels in English composition. The subject for the essay of 1914 is: William Makepeace Thackeray, Novelist and Satirist. The subject for the essay of 1915 is: Thomas Carlyle, His Character and Influence. Essays must be left with the Professor of English Literature on or before the first Monday of the third term (April 20, 1914).

JUNIOR EXHIBITION PRIZES.—Two prizes, of twenty and fifteen dollars respectively, are awarded to the two members of the Junior class who present the best orations at the annual Junior Exhibition. In the award of these prizes, both the composition and the delivery of the orations are considered. The orations must be left with the Professor of the English Language on or before the first Saturday of the third term (April 18, 1914).

THE COLE PRIZE.—A prize of thirty-five dollars, the gift of George Henry Walker, B. S., in memory of Charles Edward Cole, is awarded to that member of the Sophomore class who maintains the highest standing in English composition from the mid-year period of his Freshman year to the end of his Sophomore year.

THE BRIGGS PRIZE.—A prize of sixty-five dollars, the income of a fund given by James E. Briggs, is awarded to the student who excels in debate. No person who has once taken the Briggs prize may compete for it again.

THE CALEF PRIZE.—A prize of fifty dollars, the gift of Samuel P. Calef, in memory of Hon. Arthur B. Calef, is awarded as a first prize to that member of the Junior or Sophomore class who excels in declamation. In the competition for this prize the selections rendered must be of a forensic character.

THE PARKER PRIZE.—A prize of ten dollars, the income of a fund given by Rev. John Parker, is awarded in the same classes, as a second prize for excellence in declamation.

THE HIBBARD PRIZE.—A prize of twenty-five dollars, the gift of Ralph B. Hibbard, Ph. B., in memory of Professor Ralph Guernsey Hibbard, is awarded to that member of the Freshman class who excels in declamation.

THE TAYLOR PRIZE.—A prize of ten dollars is awarded to the student who presents the best English poem. The poem must be left with the Professor of English Literature before the annual examinations.

The several committees of award will withhold any prize, if, in their judgment, none of the exercises presented in competition for it possess the requisite merit.

AWARD OF PRIZES, 1912-1913.

The Joseph D. Weeks Prize, to LLOYD PRESTON RICE, 1913.

The Peirce Prize, to WILLIAM COLCORD WOODS, 1913.

The Phi Beta Kappa Prize, to MICHAEL GEROME, 1915.

Committee of Award:—Professor Floyd George Ballentine, Bucknell University.

The John Bell Scott Prize, to NOEL EDGAR BENSINGER, 1914.

Committee of Award:—Professor John Albrecht Walz, Harvard University.

The Giffin Prize, to ARTHUR STANLEY HANCOCK, 1913.

Committee of Award:—Professors Rice, Winchester, Armstrong, Dodge, and Drake.

The Weeks Prize, to WILLIAM GEORGE CHANTER, 1914.

The Camp Prize, to MICHAEL GEROME, 1915.

The Johnston Prize, to FREDERICK HUPMAN HOTCHKISS, 1915.

The Spinney Prize, to HAROLD RIDEOUT WILLOUGHBY, 1915.

Committee of Award:—Doctor Frederick Warren Wright, Smith College.

The Rice Prize, to WILLIAM FRANCIS DAVIS, JR., 1913, and FREDERICK HUPMAN HOTCHKISS, 1915.

The Walkley Prize, to ROBERT ELWOOD MOORE, 1915.

The Wise Prize, to VEO FULLER SMALL, 1913.

The Prentice Prize, to ROBERT FOSTER VOLENTINE, 1913.

Committee of Award:—Professor Roscoe James Ham, Bowdoin College.

The Sherman Prize, to CARL WRIGHT PHELPS, 1916.

The Ayres Prize, to EMANUEL LOUIS CHIESA, 1917, prepared at the Mount Hermon School.

The Rich Prize, to HENRY HITT CRANE, 1913.

Committee of Award:—Reverend Charles Wesley Flint, D. D., Henry Barrett Learned, Ph. D., and Charles Kenneth Wynne, LL. B.

The Olin Prize, to EARL HENRY BENNETT, 1913.

Committee of Award:—Professor Chauncey Brewster Tinker, Yale University.

The Cole Prize, to HAROLD ANDREW RICHMOND, 1915, and HAROLD RIDEOUT WILLOUGHBY, 1915.

The First Junior Exhibition Prize, to RAYMOND AVERY HALL, 1914.

Committee of Award:—Reverend Samuel Hart, D. D., LL. D., Dean of the Berkeley Divinity School, Hobart George Truesdell, M. A., Principal of the Connecticut Literary Institution, and Ernest Alexander Inglis, Ph.B., LL.B.

The Second Junior Exhibition Prize, to RALPH GORDON SICKELS, 1914.

Committee of Award:—Same as for the First Junior Exhibition Prize.

The Briggs Prize, to ARTHUR STANLEY HANCOCK, 1913.

Committee of Award:—Professor Frank Walter Nicolson, M. A., Gustaf Berger Carlson, B. A., and Mr. Richard Hubbard Bunce.

The Calef Prize, to RAYMOND AVERY HALL, 1914.

Committee of Award:—Hon. Frank Bentley Weeks, LL. D., Reverend Edward Campion Acheson, M. A., and Reverend William De Verne Beach, B. A., B. D.

The Parker Prize, to VICTOR FELLINI, 1914, and HAROLD RIDEOUT WILLOUGHBY, 1915.

Committee of Award:—Same as for the Calef Prize.

The Hibbard Prize, to GEORGE MAIR, 1916.

Committee of Award:—Same as for the Calef Prize.

The Taylor Prize, to RAYMOND TOSTEVIN BOND, 1914.

APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The Junior Exhibition is held on the third Thursday evening of the Spring term (April 30, 1914). The speakers, eight in number, are selected from the men of the Junior class according to their grade in composition subsequent to the Freshman year, and by means of a special contest in declamation. The selection of speakers for Commencement is determined as follows. Members of the Senior Class seeking appointment to speak at Commencement hand in two essays each; from the sixteen competitors whose work is adjudged to be of the highest merit, eight are selected by means of a contest in declamation.

The speakers last year were:—

JUNIOR EXHIBITION.

Noel Edgar Bensinger,
George Theron Blydenburgh,
William George Chanter,
Ralph Olin Dulany,
Raymond Avery Hall,
Brewster Hawkins Jones,
Ralph Gordon Sickels.

COMMENCEMENT.

Paul Burt,
Henry Hitt Crane,
Arthur Stanley Hancock,
Carl Kempton Hill,
Samuel Wilson Murphy,
Lloyd Preston Rice,
Robert Foster Volentine,
Harold Ewing Witman.

HONORS IN SCHOLARSHIP.

I. HONORS IN GENERAL SCHOLARSHIP. — Two grades of honor, designated respectively as honors and high honors, are conferred at graduation, based upon the general scholarship of the student throughout his whole course.

An honor in general scholarship is awarded to a student who has received a grade not below third on an aggregate of not less than 56 hours' work, as reckoned in the record of standings, has received first grade on a number of hours' work not less than the part of the 56 hours' work on which he has received third grade, and has not fallen below fourth grade in any study of the course.

A high honor in general scholarship is awarded to a student who has received a grade not below second on an aggregate of not less than 56 hours' work, has received first grade on an aggregate of not less than 46 hours' work, and has not fallen below third grade in any study of the course.

II. PRELIMINARY HONORS. — Preliminary honors are awarded in the departments of classics and of mathematics at the end of the Sophomore or Junior year, and no student can receive special honors at graduation in Greek, Latin, or mathematics who has not previously received the corresponding preliminary honors. Notice of candidacy for preliminary honors must be given to the senior officer of the department, and to the Secretary of the Faculty, as early as the first Monday of the third term of the year in which the candidate intends to present himself for the special examination (April 20, 1914). The case of each candidate is decided by the Faculty. The special regulations concerning the award of preliminary honors are as follows:—

Classics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade, in the following courses:—I., I.A, II., and either III. or IV. Greek, and I., I.A, two of Courses II.–V., and any one of Courses VI., XVI., and XVII. in Latin.

2. He must also pass with distinction a special examination, held near the end of the academic year, and designed to test *(a)* his ability to translate Greek and Latin into English at sight, and *(b)* his knowledge of Greek and Latin grammar, and of Greek and Roman antiquities, mythology, and political and literary history.

Mathematics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade, in such courses in mathematics, amounting to not less than nine hours a week, as may be approved by the head of the department.

2. He must pass with distinction a special examination held near the end of the academic year, which may cover the entire field of his mathematical knowledge.

III. HONORS IN SPECIAL DEPARTMENTS AT GRADUATION.—Two grades of special honor, designated respectively as honors and high honors, are awarded at graduation in each of the following departments:—

Latin; Greek; German; Romance Languages; English; History; Economics and Social Science; Philosophy; Mathematics; Physics; Chemistry; Geology; Biology.

The conditions upon which special honors in these departments are awarded are as follows:—

(1) The candidate must apply to the officer in charge of the department in which he desires to take honors, and to the Secretary of the Faculty, not later than the first Monday of the third term in the Junior year (April 20, 1914).

(2) He must pass at the regular or special examinations in such studies of the college course as are prescribed for honors in the several departments in the schedule given below; and in such studies he must not fall below third grade, and must maintain an average standing of second grade after the beginning of the Sophomore year, or must receive first grade in all of the prescribed studies which he takes after the beginning of the Junior year.

(3) In addition to the studies regularly prescribed in the schedule below, the candidate must pursue such a course of collateral reading or investigation as is prescribed by the officer in charge of the department, with the approval of a committee of the Faculty. The evidence of his proficiency in this collateral course is given by an examination, oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as may be prescribed by the officer of the department, with the approval of a committee of the Faculty. The case of each candidate is decided by the Faculty.

(4) In addition to other requirements, every candidate for special honors is required to pass a *general examination* covering the entire field of his knowledge in the department in which the honor is given. This examination is oral, and is conducted in the presence of a committee of the Faculty.

(5) No student is awarded special honors who fails to pass in any study of the last two years of the course.

(6) No examination for special honors is given, and no thesis or other work in preparation for special honors is received, after the second Saturday preceding Commencement (June 6, 1914).

The conditions upon which high special honors are awarded are the same as for special honors, with the addition of the following requirements:—

The candidate must receive first grade in all of the prescribed studies which he takes after the beginning of the Sophomore year, and his examinations and other tests must show an exceptionally clear and comprehensive understanding of the studies of the department, and give promise of capacity for independent work.

The following schedule gives the studies required of candidates for special honors in the several departments:—

Latin.—1. So many of the courses in Latin as will amount in the aggregate to not less than sixteen hours a week.

2. Courses I., I.A, II., and either III. or IV., in Greek.

[Candidates for special honors in Latin at graduation are requested to announce their candidacy as early as the beginning of the Junior year.]

Greek.— 1. Courses I.–VII. in Greek, and not less than three hours in courses approved by the Committee on Special Honors.

2. Courses I., I.A, and two of Courses II.–V., in Latin.

German.—1. Courses I.–IV., IX.–XII., and one of Courses V., VI., and VII., in German.

2. Courses I. and II. in French.

3. Course I. in English literature, or Course V. in English language.

Romance Languages.—1. Courses I.–VI. in French, and any two other courses in Romance languages.

2. Courses I. and II. in German.

English.—1. The required courses in English, including composition.

2. One of the following groups of elective courses:—

(a) Five courses in English literature; Course IV. or Course V. in English language; two courses in French, or two courses in German.

(b) Four courses in English language; two courses in English literature; two courses in German and one course in French, or two courses in French and one course in German.

History.—1. All the courses in history.

2. Any three courses in economics and social science.

Economics and Social Science.—1. All the courses in economics and social science.

2. Course I., and either Course VII. or Course VIII., in history.

Philosophy.—1. All the courses in philosophy.

2. Courses I., II., and VI. in ethics and the philosophy of religion.

3. Courses I. and III. in psychology.

Mathematics.—1. Courses in mathematics and astronomy amounting in the aggregate to not less than nineteen hours a week.

2. Course I. in physics.

[Prospective candidates for special honors in mathematics at graduation are advised to take Course VII. in mathematics in the Sophomore year.]

Physics.—1. Course I. in physics.

2. Two years of practical physics, amounting in the aggregate to not less than five hours a week.

3. Not less than the equivalent of nine hours per week for a year, chosen from Courses III., IV., V., VI., VII., IX., and X. in physics, and Course XIII. in mathematics.

4. Courses I. and II. in chemistry.

5. Course VII. in mathematics.

Chemistry.—1. Courses I.–III., V. (three periods), VI., XIV., and XV. in chemistry.

2. *(a)* Courses VIII., X., and XI. in chemistry, Course I. in physics, and one year of practical physics; or *(b)* Courses V. (a fourth period), VII., and XII. in chemistry, and Courses IV. and VIII. in biology.

Geology.—1. Courses I.–VI. in geology.

2. The course in descriptive astronomy.

3. Courses II. and III. in biology.

4. Not less than two of the following courses:—V., VIII., and IX. in biology, II. and III. in chemistry, and IV. in physics.

Biology.—1. Courses I.–IV. in biology.

2. Two years of practical biology (in at least one of which there shall be three exercises a week).

3. Courses I. and II. in geology.

4. Course I. in chemistry.

5. Either Courses II. and III. in chemistry, or Course IV. in geology.

[Candidates for special honors in biology are recommended to take at least one summer course in a marine laboratory.]

In all cases in which the foregoing schedule allows option between two or more courses or groups of courses, the student's selection is subject to the approval of the head of the department in which he desires to take honors.

In special cases a candidate for honors may be allowed to substitute other courses for those named in the foregoing schedule, by vote of the Faculty, on recommendation of the head of the department.

An honor of any of the kinds and grades mentioned may be conferred on a student sufficiently meritorious, by vote of the Faculty, even though his record of standing does not completely fulfill the requirements stated above.

The names of those students who take preliminary honors are announced at the public service held in Memorial Chapel on the Monday preceding Commencement (June 15, 1914).

The names of students who take honors at graduation, whether general or special, are printed on the Commencement program.

AWARD OF HONORS,

COMMENCEMENT, 1913.

HONORS IN GENERAL SCHOLARSHIP.

HIGH HONORS.

Paul Burt, William Colcord Woods.

HONORS.

Clarence Alvin Bengtson,
Eugene Shepard Clark,
William Francis Davis, Jr.,
John Goldsborough Easton,
John Adams Eldridge,
Erlund Kenneth French,
Arthur Stanley Hancock,
George Lansing Harvey,
Walter Thomas James,
Samuel Wilson Murphy,
Winfred King Petigrue,
Lloyd Preston Rice,
Veo Fuller Small,
Robert Foster Volentine,
Lowell Walcutt.

HONORS IN SPECIAL DEPARTMENTS.

HIGH HONORS.

BIOLOGY.

WILLIAM COLCORD WOODS. Thesis: "Insects as a Means of Distribution of Infectious Diseases Among Men and Animals."

DEGREES.

The following degrees are conferred by the University in course: Bachelor of Arts (B. A.), Bachelor of Science (B. S.), Master of Arts (M. A.), Master of Science (M. S.).

THE BACHELOR'S DEGREE.—The degrees of Bachelor of Arts and of Bachelor of Science are conferred on those who have met the requirements for admission to the respective courses as set forth on page 31, and have taken the required quota of studies in college, as prescribed on pages 101–102.

The baccalaureate degree is awarded *summa cum laude* to a student who takes high honors both in general scholarship and in one or more departments; *magna cum laude*, to a student who takes a high honor either in general scholarship or in one or more departments; *cum laude*, to a student who takes an honor either in general scholarship or in one or more departments.

THE MASTER'S DEGREE.—The degrees of Master of Arts and of Master of Science are conferred in accordance with the following regulations:—

1. The degree of Master of Arts is conferred upon Bachelors of Arts of Wesleyan University, of at least one year's standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued in residence for a period of not less than one year.* This course of study is under the

* Candidates for the Bachelor's degree who satisfy the requirements for honors in general scholarship may in their Senior year be admitted to candidacy for the Master's degree, provided that the amount of their undergraduate work remaining to be completed at the close of the September special examinations does not exceed three hours. Except by express permission of the Committee on Graduate Instruction, their undergraduate work must satisfy the group requirement in such manner that they are free to elect the remaining three hours in the department or departments in which they intend to do graduate work. Such candidates shall rank as graduate students and shall not be members of any athletic or debating teams, musical or dramatic organizations, or take part in any similar undergraduate activity. This rule, however, does not necessarily debar them from competing for any prize for which they would be eligible as undergraduates. The entire work of these candidates is under the direction of the Committee on Graduate Instruction. The Master's degree will not be conferred upon them until the Commencement succeeding that at which the Bachelor's degree has been conferred.

full direction of the Committee of the Faculty on Graduate Instruction, composed of four permanent members with the addition of the instructor in charge of each department in which the candidate pursues work.

Bachelors of Philosophy of Wesleyan University who apply for the Master's degree are eligible for the degree of Master of Arts.

2. In the case of Bachelors of Arts of other colleges whose course of study is accepted by the Committee on Graduate Instruction, or who pass such additional examinations as the Committee may prescribe, the degree of Master of Arts is conferred on the conditions prescribed in the case of Bachelors of Arts of Wesleyan University.

3. The degree of Master of Science is conferred upon Bachelors of Science of Wesleyan University, and upon graduates of other colleges holding an equivalent degree, under the same conditions which govern in the case of the degree of Master of Arts.

4. Bachelors of Science of Wesleyan University, and graduates of other colleges holding a Bachelor's degree other than that of Bachelor of Arts, who pass such examinations in Greek or Latin, and in other literary studies, as the Committee on Graduate Instruction may prescribe, are admitted to the degree of Master of Arts on the conditions prescribed in the case of Bachelors of Arts.

5. A fee of five dollars (payable to the Secretary of the Committee) is required of every candidate for the Master's degree at his enrolment; and a fee of ten dollars (payable to the Assistant Treasurer of the University) is required when the degree is conferred.

6. Evidence of the candidate's proficiency in the approved course of study is given in one or more of the following ways, as the Committee may prescribe: *(a)* by examinations, oral or written; *(b)* by a thesis; *(c)* by the exhibition of scientific specimens, preparations, or processes. All such tests of proficiency are under the direction of the Committee, and they report to the Faculty proper candidates for the degree.

In addition to these regulations of the Trustees, the Committee on Graduate Instruction has from time to time adopted standing rules of procedure, among which the following should be noted as specially important:—

Whatever other tests of proficiency may be prescribed, each candidate for the Master's degree is required to pass an oral examination in the presence of the Committee, upon the whole, or a previously specified part, of his course of study.

All examinations of candidates for the Master's degree are conducted at the University.

Unless the Committee, for important reasons, determines otherwise in some specific case, no examinations will be given (except in regular college courses), and no thesis or other work prescribed in preparation for the degree will be received, later than the second Saturday before Commencement in the academic year in which the candidate desires to be recommended for the degree (June 6, 1914).

A complete statement of these rules may be obtained by applying to the Secretary of the Committee on Graduate Instruction (in care of the Office of the University, South College), to whom also all communications from prospective candidates should, in the first instance, be addressed.

DEGREES CONFERRED, JUNE 18, 1913.

DEGREES IN COURSE.

The Degree of Bachelor of Arts was conferred on:

Albert Edward Beebe,
Earl Henry Bennett,
Abram Breneman Bruner,
Henry Mullison Bruner,
Paul Burt,
Albert Merwin Clark,
Eugene Shepard Clark,
G. Rouald Clark, Jr.,
Harold Payson Cobb,
Henry Hitt Crane,
William Francis Davis, Jr.,
Alan Lee Dodd,
John Adams Eldridge,
Harold Underwood Faulkner,
Haynes Harold Fellows,
Harry Clinton France,
Erlund Kenneth French,
Waldo Pierpont Gillies,
Harold Abrams Gilman,
Russell Lowell Gould,
Arthur Stanley Hancock,
George Lansing Harvey,
Carl Kempton Hill,
Edwin Earle Hoyt,
Frank Charles Huntington,
Walter Thomas James,
Edward Henry Jones, Jr.,
Roland Kilbon,
Harold Lester Knapp,
Robert Irving Laggren,
Howard Seavoy Leach,
William Dudley McLarren,
Cyrus Wesley Marshall,
John Desmond Murphy,
Samuel Wilson Murphy,
Frederick Buckley Newell,
Martin O. Olsen,
Thorold Ward Pell,
Lloyd Preston Rice,
Joseph William Rowe,
Veo Fuller Small,
Peleg William Sprague,
James Esmond Stiles,
Spencer Allen Studwell,
George Greely Summerson,
Robert Stockdale Telfer,
Robert Leonard Tucker,
Robert Foster Volentine,
Lowell Walcutt,
Harold Ewing Witman,
Thomas Adamson Wood,
William Colcord Woods.

The Degree of Bachelor of Science was conferred on:—

Clarence Everett Bacon,
Clarence Alvin Bengtson,
Miller Robert Adolph Bernhard,
David Wallace MacMullen,
John Paul Maynard,
James Alexander Morton,

In addition to these regulations of the Trustees, the Committee on Graduate Instruction has from time to time adopted standing rules of procedure, among which the following should be noted as specially important:—

Whatever other tests of proficiency may be prescribed, each candidate for the Master's degree is required to pass an oral examination in the presence of the Committee, upon the whole, or a previously specified part, of his course of study.

All examinations of candidates for the Master's degree are conducted at the University.

Unless the Committee, for important reasons, determines otherwise in some specific case, no examinations will be given (except in regular college courses), and no thesis or other work prescribed in preparation for the degree will be received, later than the second Saturday before Commencement in the academic year in which the candidate desires to be recommended for the degree (June 6, 1914).

A complete statement of these rules may be obtained by applying to the Secretary of the Committee on Graduate Instruction (in care of the Office of the University, South College), to whom also all communications from prospective candidates should, in the first instance, be addressed.

DEGREES CONFERRED, JUNE [illegible]

DEGREES IN COURSE

The Degree of Bachelor of Arts was conferred on

Albert Edward Beebe,
Earl Henry Bennett,
Abram Breneman Bruner,
Henry Mullison Bruner,
Paul Burt,
Albert Merwin Clark,
Eugene Shepard Clark,
G. Ronald Clark, Jr.,
Harold Payson Cobb,
Henry Hitt Crane,
William Francis Davis, Jr.,
Alan Lee Dodd,
John Adams Eldridge,
Harold Underwood Faulkner,
Haynes Harold Fellows,
Harry Clinton France,
Erlund Kenneth French,
Waldo Pierpont Gillies,
Harold Abrams Gilman,
Russell Lowell Gould,
Arthur Stanley Hancock,
George Lansing Harvey,
Carl Kempton Hill,
Edwin Earle Hoyt,
Frank Charles Huntington,
Walter Thomas James,

[illegible]

The Degree of Bachelor of Science was conferred on

Clarence Everett Bacon,
Clarence Alvin Bengtson,
Miller Robert Adolph Bernhard,

[illegible]

A high honor in general scholarship is awarded to a student who has received a grade not below second on an aggregate of not less than 56 hours' work, has received first grade on an aggregate of not less than 46 hours' work, and has not fallen below third grade in any study of the course.

II. PRELIMINARY HONORS. — Preliminary honors are awarded in the departments of classics and of mathematics at the end of the Sophomore or Junior year, and no student can receive special honors at graduation in Greek, Latin, or mathematics who has not previously received the corresponding preliminary honors. Notice of candidacy for preliminary honors must be given to the senior officer of the department, and to the Secretary of the Faculty, as early as the first Monday of the third term of the year in which the candidate intends to present himself for the special examination (April 20, 1914). The case of each candidate is decided by the Faculty. The special regulations concerning the award of preliminary honors are as follows:—

Classics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade, in the following courses:—I., I.A, II., and either III. or IV. Greek, and I., I.A, two of Courses II.–V., and any one of Courses VI., XVI., and XVII. in Latin.

2. He must also pass with distinction a special examination, held near the end of the academic year, and designed to test *(a)* his ability to translate Greek and Latin into English at sight, and *(b)* his knowledge of Greek and Latin grammar, and of Greek and Roman antiquities, mythology, and political and literary history.

Mathematics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade, in such courses in mathematics, amounting to not less than nine hours a week, as may be approved by the head of the department.

2. He must pass with distinction a special examination held near the end of the academic year, which may cover the entire field of his mathematical knowledge.

III. HONORS IN SPECIAL DEPARTMENTS AT GRADUATION.—Two grades of special honor, designated respectively as honors and high honors, are awarded at graduation in each of the following departments:—

Latin; Greek; German; Romance Languages; English; History; Economics and Social Science; Philosophy; Mathematics; Physics; Chemistry; Geology; Biology.

The conditions upon which special honors in these departments are awarded are as follows:—

(1) The candidate must apply to the officer in charge of the department in which he desires to take honors, and to the Secretary of the Faculty, not later than the first Monday of the third term in the Junior year (April 20, 1914).

(2) He must pass at the regular or special examinations in such studies of the college course as are prescribed for honors in the several departments in the schedule given below; and in such studies he must not fall below third grade, and must maintain an average standing of second grade after the beginning of the Sophomore year, or must receive first grade in all of the prescribed studies which he takes after the beginning of the Junior year.

(3) In addition to the studies regularly prescribed in the schedule below, the candidate must pursue such a course of collateral reading or investigation as is prescribed by the officer in charge of the department, with the approval of a committee of the Faculty. The evidence of his proficiency in this collateral course is given by an examination, oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as may be prescribed by the officer of the department, with the approval of a committee of the Faculty. The case of each candidate is decided by the Faculty.

(4) In addition to other requirements, every candidate for special honors is required to pass a *general examination* covering the entire field of his knowledge in the department in which the honor is given. This examination is oral, and is conducted in the presence of a committee of the Faculty.

(5) No student is awarded special honors who fails to pass in any study of the last two years of the course.

(6) No examination for special honors is given, and no thesis or other work in preparation for special honors is received, after the second Saturday preceding Commencement (June 6, 1914).

The conditions upon which high special honors are awarded are the same as for special honors, with the addition of the following requirements:—

The candidate must receive first grade in all of the prescribed studies which he takes after the beginning of the Sophomore year, and his examinations and other tests must show an exceptionally clear and comprehensive understanding of the studies of the department, and give promise of capacity for independent work.

The following schedule gives the studies required of candidates for special honors in the several departments:—

Latin.—1. So many of the courses in Latin as will amount in the aggregate to not less than sixteen hours a week.

2. Courses I., I.A, II., and either III. or IV., in Greek.

[Candidates for special honors in Latin at graduation are requested to announce their candidacy as early as the beginning of the Junior year.]

Greek.—1. Courses I.–VII. in Greek, and not less than three hours in courses approved by the Committee on Special Honors.

2. Courses I., I.A, and two of Courses II.–V., in Latin.

German.—1. Courses I.–IV., IX.–XII., and one of Courses V., VI., and VII., in German.

2. Courses I. and II. in French.

3. Course I. in English literature, or Course V. in English language.

Romance Languages.—1. Courses I.–VI. in French, and any two other courses in Romance languages.

2. Courses I. and II. in German.

English.—1. The required courses in English, including composition.

2. One of the following groups of elective courses:—

(a) Five courses in English literature; Course IV. or Course V. in English language; two courses in French, or two courses in German.

(b) Four courses in English language; two courses in English literature; two courses in German and one course in French, or two courses in French and one course in German.

History.—1. All the courses in history.

2. Any three courses in economics and social science.

Economics and Social Science.—1. All the courses in economics and social science.

2. Course I., and either Course VII. or Course VIII., in history.

Philosophy.—1. All the courses in philosophy.

2. Courses I., II., and VI. in ethics and the philosophy of religion.

3. Courses I. and III. in psychology.

Mathematics.—1. Courses in mathematics and astronomy amounting in the aggregate to not less than nineteen hours a week.

2. Course I. in physics.

[Prospective candidates for special honors in mathematics at graduation are advised to take Course VII. in mathematics in the Sophomore year.]

Physics.—1. Course I. in physics.

2. Two years of practical physics, amounting in the aggregate to not less than five hours a week.

3. Not less than the equivalent of nine hours per week for a year, chosen from Courses III., IV., V., VI., VII., IX., and X. in physics, and Course XIII. in mathematics.

4. Courses I. and II. in chemistry.

5. Course VII. in mathematics.

Chemistry.—1. Courses I.–III., V. (three periods), VI., XIV., and XV. in chemistry.

2. *(a)* Courses VIII., X., and XI. in chemistry, Course I. in physics, and one year of practical physics; or *(b)* Courses V. (a fourth period), VII., and XII. in chemistry, and Courses IV. and VIII. in biology.

Geology.—1. Courses I.–VI. in geology.

2. The course in descriptive astronomy.

3. Courses II. and III. in biology.

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Secretary—George Wood Vinal, '06, Bureau of Standards, Washington, D. C.

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Secretary—Leon Hilliard Curtice, '08, General Electric Co., Schenectady, N. Y.

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President—William Percival Ogden, '01, Waterbury.
Secretary—George Albert Williams, ex-'97, Waterbury.

CALENDAR.

1913.

Sept. 18. Thursday, 9 A. M.—First term begins.

Nov. 26–28. Thanksgiving recess.

Dec. 19. Friday—First term ends.

Last day for presenting applications for winter special examinations.

CHRISTMAS RECESS.

1914.

Jan. 3. Saturday—Second term begins.

Jan. 19–31. Mid-year examinations.

Feb. 5. Thursday—Day of Prayer for Colleges—a holiday.

Feb. 21. Saturday—a holiday, commemorating Washington's Birthday.

Mar. 5. Thursday—Prize Debate.

April 7. Tuesday—Second term ends.

Last day for presenting applications for spring special examinations.

SPRING RECESS.

April 15. Wednesday—Third term begins.

April 18. Saturday—Last day for presenting Junior Exhibition essays.

April 20. Monday—Last day for presenting Olin Prize essays.

April 20. Monday—Last day for presenting applications for preliminary and special honors.

April 30. Thursday—Junior Exhibition.

May 18. Monday—Last day for presenting Giffin Prize essays.

May 21. Thursday—Prize declamation contest.

May 29. Friday—Annual examinations begin.

May 30. Saturday—Memorial Day—a holiday.

June 1. Monday—Last day for presenting Joseph D. Weeks Prize essays.

June 6. Saturday—Last day for presenting special honor theses, and for special honor examinations.

June 6. Saturday—Last day for presenting Master's theses, and for examinations for the Master's degree.
June 9. Tuesday—Last day for presenting Rich Prize essays.
June 14. Sunday morning—Baccalaureate sermon.
June 14. Sunday evening—University sermon.
June 15–20. Examinations of College Entrance Examination Board.
June 15. Monday morning—Business meeting of the Phi Beta Kappa Society.
June 15. Monday morning—Announcement of award of prizes and of preliminary honors.
June 15. Monday afternoon—Class Day.
June 15. Monday evening—Meeting of the Board of Trustees.
June 16. Tuesday morning—Meeting of the Board of Trustees.
June 16. Tuesday morning—Business meeting of the Alumni Association.
June 16. Tuesday afternoon—Social receptions by the college fraternities.
June 17. Wednesday—COMMENCEMENT.

VACATION OF FOURTEEN WEEKS.

Sept. 22. Tuesday—Special examinations for students deficient at the annual examinations.
Sept. 23–24. Examination of candidates for admission.
Sept. 24. Thursday, 9 A. M.—First term begins.

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CALENDAR

1914

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FEBRUARY

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APRIL

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MAY

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JUNE

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JULY

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AUGUST

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OCTOBER

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NOVEMBER

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1915

JANUARY

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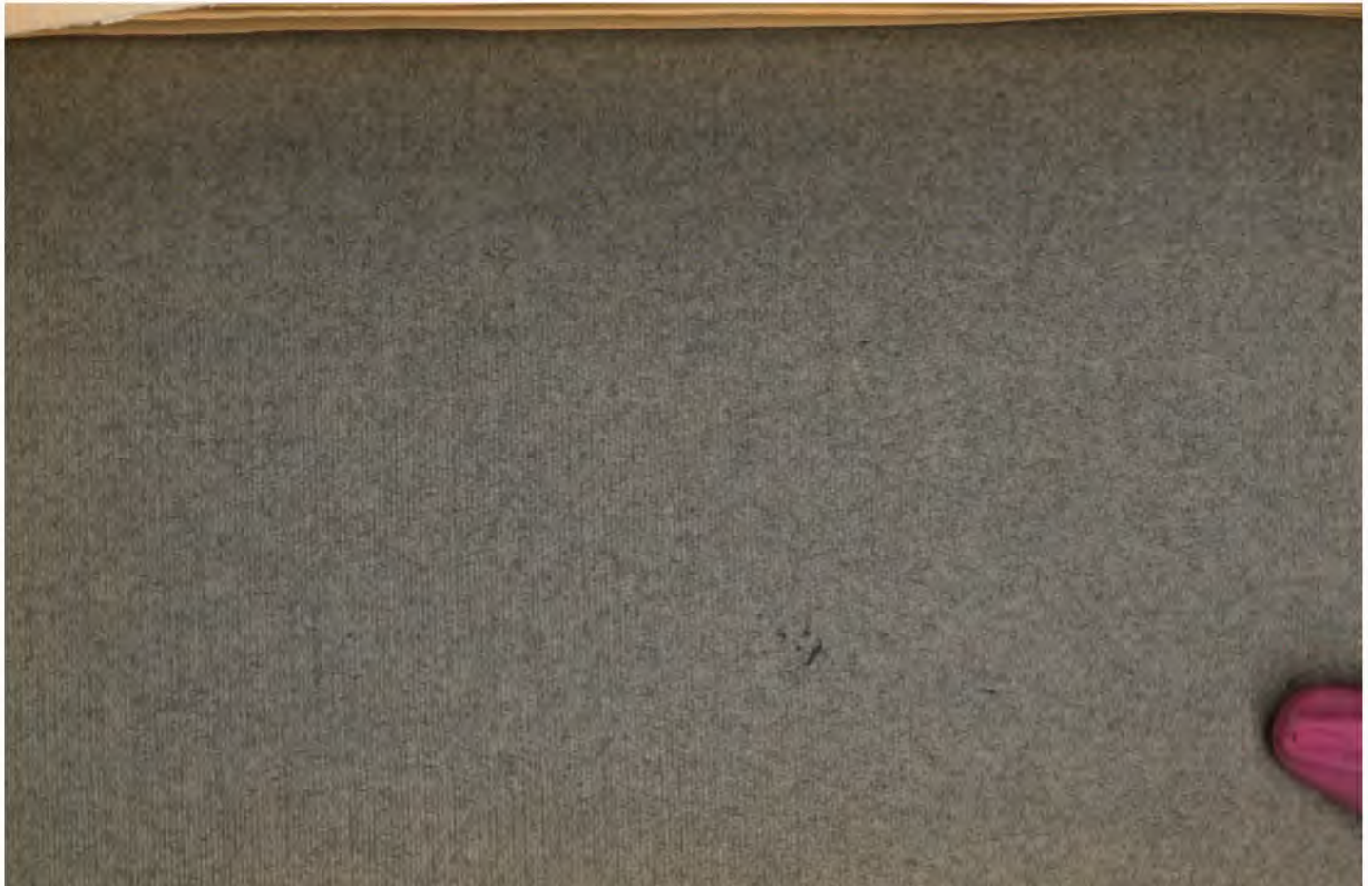

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1914-1915

MIDDLETOWN, CONN.
MCMXV

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Edward Fenn Nourse,	*Berlin.*	Δ. T. Δ. *House.*
Frank Harrison Nye,	*Keene, N. Y.*	*Commons Club.*
David Manker Patten,	*Chattanooga, Tenn.*	*Eclectic House.*
Howard Kistler Petry,	*Wilkes-Barre, Pa.*	Ω. Φ. *House.*
Louis Wetherbee Pitt,	*Middletown.*	A. Δ. Φ. *House.*
Albert Irving Prince,	*Chelsea, Mass.*	Ω. Φ. *House.*
John Wesley Prince,	*Cutler, Cal.*	B. Θ. Π. *House.*
Joseph Atherton Richards,	*Honolulu, Hawaii.*	Ψ. Υ. *House.*
Harold Andrew Richmond,	*Norwich.*	A. X. P. *House.*
Daniel Mannix Rowe,	*Portland, Me.*	Δ. T. Δ. *House.*
† Charles Nathan Rudkin,	*Middletown.*	B. Θ. Π. *House.*
Edward Warren Sine,	*Philadelphia, Pa.*	Ω. Φ. *House.*
† Harold Robert Smart,	*Searsport, Me.*	A. X. P. *House.*
† Hugh Llewellyn Smith,	*Binghamton, N. Y.*	B. Θ. Π. *House.*
*† William Sherman Smith,	*Annandale, N. Y.*	
Charles Francis Stanley,	*Middletown.*	Δ. K. E. *House.*
† Walter Richey Stillman,	*Watertown, N. Y.*	Δ. T. Δ. *House.*
† Fred Robert Strasburg,	*Richmond Hill, N. Y.*	*Commons Club.*
Paul Randolph Sutherland,	*Brooklyn, N. Y.*	*Berkeley Divinity Sch.*
† Joseph Aubrey Sutton,	*Haverford, Pa.*	Ψ. Υ. *House.*
Charles Hatfield Taft, Jr.,	*Montclair, N. J.*	Δ. T. Δ. *House.*
James Adams Thompson,	*Plattsburg, N. Y.*	A. Δ. Φ. *House.*
Francis Bourne Upham, Jr.,	*Brooklyn, N. Y.*	*Eclectic House.*
Leslie Vanderbilt,	*Newark, N. J.*	Δ. K. E. *House.*
Howard Boniwell Warren,	*Selbyville, Del.*	*309 William St.*
Oakley Emerson Washburn,	*Saugatuck.*	A. X. P. *House.*
John Cheney White,	*Auburn, N. Y.*	*Eclectic House.*
Harold Rideout Willoughby,	*North Haverhill, N.H.*	*Commons Club.*
John Howard Withey,	*Harriman, N. Y.*	Δ. T. Δ. *House.*
† Henry Hopkins Wright,	*East Hardwick, Vt.*	B. Θ. Π. *House.*
Paul Mortimer Young,	*Sayre, Pa.*	*41 Home Ave.*

*On leave of absence.

JUNIORS—CLASS OF 1916.

NAMES.	RESIDENCES.	ROOMS.
Harold Raymond Aldrich,	*Northfield, Vt.*	Ω. Φ. *House.*
Foster Eames Allison,	*Boston, Mass.*	Δ. T. Δ. *House.*
Raymond Earl Baldwin,	*Middletown.*	Δ. T. Δ. *House.*
† Willard Robert Bell,	*West Leesport, Pa.*	Ω. Φ. *House.*
Albert Akley Belyea,	*Caribou, Me.*	*58 Wyllys St.*
Frank William Bevan,	*North Adams, Mass.*	38 N. C.
Edgar Blake, Jr.,	*Chicago, Ill.*	A. X. P. *House.*
Irving George Boyd,	*Jersey City, N. J.*	Δ. K. E. *House.*
Richard Theodore Broeg,	*Atkinson, Me.*	*84 Cross St.*
John Lee Brooks,	*Middletown.*	*26 Wall St.*
Alfred Evans Bruner,	*Columbia, Pa.*	A. Δ. Φ. *House.*
† Edward Rowland Burns,	*Meriden.*	A. X. P. *House.*
† Wilfred McKinley Bywater,	*Middletown.*	*18 Park St.*
† Martin Francis Carpenter,	*Somerville, Mass.*	*Eclectic House.*
Kingman Packard Cass,	*Tilton, N. H.*	Δ. T. Δ. *House.*
† Do Gieng Ciu,	*Foochow, China.*	18 O. H.
Harold Redmond Coleman,	*Lake Ronkonkoma, N. Y.*	*317 William St.*
† John Andrew Crafts,	*Mattapan, Mass.*	B. Θ. Π. *House.*
† George Mansfield Craig,	*Middletown.*	A. Δ. Φ. *House.*
George Bartlett Curtis,	*Williston, Vt.*	*Commons Club.*
Warren McAllister Deacon,	*Strasburg, Pa.*	A. X. P. *House.*
Philip Harrison Dodd,	*Shelton.*	*Commons Club.*
Bradford Downey,	*Mt. Vernon, N. Y.*	Δ. K. E. *House.*
Wilbur Nelson Edwards,	*Clinton.*	19 O. H.
† Elmer Tice Eustis,	*New York, N. Y.*	A. Δ. Φ. *House.*
† Ralph Carlin Flewelling,	*Leominster, Mass.*	A. Δ. Φ. *House.*
Ralph Edward Foster,	*Ansonia.*	38 N. C.
Mansfield Freeman,	*Columbus, O.*	*Eclectic House.*
† Donald William Gold,	*Redwood Falls, Minn.*	A. X. P. *House.*
Joseph Milner Goldblatt,	*Kansas City, Mo.*	*240 College St.*
† David William Gordon,	*Hazardville.*	B. Θ. Π. *House.*
† William Gammon Greenman,	*Naples, Italy.*	*27 Cross St.*
Edward Benjamin Haines,	*Hamburg.*	67 N. C.

NAMES.	RESIDENCES.	ROOMS.
Abraham Avery Hallock,	*Cromwell.*	Ψ. Υ. *House.*
† Charles Leslie Hammond,	*Glens Falls, N. Y.*	*Eclectic House.*
† Samuel Hugh Harvey,	*Willimantic.*	Χ. Ψ. *Lodge.*
† George Alfred Hedenburg,	*Worcester, Mass.*	Β. Θ. Π. *House.*
John W. Hingeley,	*Evanston, Ill.*	Α. Δ. Φ. *House.*
Joseph Anthony Hofmann, Jr.,	*Upper Montclair, N. J.*	*Eclectic House.*
Lewis Edward Holden,	*Goffstown, N. H.*	*Commons Club.*
† Willard Earle Honsinger,	*Westfield, Mass.*	Α. Χ. Ρ. *House.*
George Shelton Hubbell,	*Dixfield, Me.*	67 N. C.
Arthur Fitzgerald Hughes,	*Union City, Pa.*	21 N. C.
† Franklin Patton Kellom,	*Winchester, N. H.*	Α. Χ. Ρ. *House.*
William Manly Ketcham,	*Kinston, N. C.*	Δ. Τ. Δ. *House.*
Lester A. Lanning,	*Harvard, Ill.*	Δ. Τ. Δ. *House.*
† Robert Fleming Leonard,	*St. Paul, Minn.*	Χ. Ψ. *Lodge.*
† Huo Mi Ling,	*Foochow, China.*	62 N. C.
James George McAlpine,	*Winsted.*	Β. Θ. Π. *House.*
Henry McDonald, Jr.,	*Middletown.*	Δ. Τ. Δ. *House.*
Robert Chester Macdonald,	*Oswego, N. Y.*	*Commons Club.*
† William John McFarlane,	*Brooklyn, N. Y.*	*Commons Club.*
† Benjamin Henry McGar,	*Meriden.*	Β. Θ. Π. *House.*
† Edward Leopold Markthaler,	*Elizabeth, N. J.*	Ψ. Υ. *House.*
Eldon Hubert Martin,	*Williamstown, Vt.*	*Commons Club.*
Winfield Scott Moore, Jr.,	*Beaver, Pa.*	*Eclectic House.*
Horace David Nuber,	*Washington, D. C.*	53 N. C.
Matthew Houston O'Brien,	*Washington, D. C.*	53 N. C.
† Rossiter David Olmstead,	*Albion, N. Y.*	Χ. Ψ. *Lodge.*
Arthur Jacob Rice,	*Dallas, Pa.*	Ω. Φ. *House.*
† Leland Francis Ross,	*Fitchburg, Mass.*	Β. Θ. Π. *House.*
Herbert Chester Sargent,	*East Barre, Vt.*	*Commons Club.*
† Frank Alfred Slocum, Jr.,	*Brooklyn, N. Y.*	Α. Δ. Φ. *House.*
† Earl Place Stevenson,	*Indianapolis, Ind.*	Ψ. Υ. *House.*
George Hawley Stewart,	*Bath, Me.*	19 O. H.
† Vernon Forrest Still,	*Elizabeth, N. J.*	Α. Χ. Ρ. *House.*
† Lyman Stephen Timmerman,	*Little Falls, N. Y.*	Δ. Τ. Δ. *House.*
† Samuel Hobart Usher,	*Brooklyn, N. Y.*	Δ. Τ. Δ. *House.*
† Karl Skillman Van Dyke,	*Middletown.*	*Eclectic House.*
Joseph Hall Van Schoick,	*Vincentown, N. J.*	*Commons Club.*

NAMES.	RESIDENCES.	ROOMS.
John Minard Van Voris,	*Cobleskill, N. Y.*	X. Ψ. *Lodge.*
John Wesley Waldron,	*Port Richmond, N. Y.*	Ω. Φ. *House.*
† Robert Boyd Ward, Jr.,	*New Rochelle, N. Y.*	Ψ. Υ. *House.*
† George Clinton Weeks,	*Newark, N. J.*	67 N. C.
† Malvern Paul Westcott,	*Chews Landing, N. J.*	X. Ψ. *Lodge.*
Arthur Corning White,	*Marbledale.*	Ψ. Υ. *House.*
Charles LeRoy Wigren,	*Ansonia.*	A. X. P. *House.*
Alonzo DeWolfe Williams,	*Corning, N. Y.*	B. Θ. Π. *House.*
† Minor Crawford Young,	*Topeka, Kan.*	X. Ψ. *Lodge.*
† Charles Lewis Wood, Jr.,	*Bertha, O.*	A. X. P. *House.*
† Tracy Wood,	*Nutley, N. J.*	*Commons Club.*

SOPHOMORES—CLASS OF 1917.

NAMES.	RESIDENCES.	ROOMS.
† Cecil Albro Allen,	*Brooklyn, N. Y.*	*23 Brainerd Ave.*
† Frederick John Andrews,	*Buckfastleigh, Devon, England.*	*Commons Club.*
† Wesley Owen Ash,	*Carthage, N. Y.*	*Eclectic House.*
† Horace Strow Baldwin,	*Orange, N. J.*	77 N. C.
† George Whitfield Beeman,	*Albany, N. Y.*	A. Δ. Φ. *House.*
† Alfred Paul Behrmann,	*Waltham, Mass.*	Ω. Φ. *House.*
Howard French Bigelow,	*Kalamazoo, Mich.*	16 N. C.
Olin Winthrop Blackett,	*Dorchester, Mass.*	59 N. C.
Morris Blumer,	*Middletown.*	*39 Warwick St.*
Walter David Briggs,	*East Greenwich, R. I.*	*149 Lincoln St.*
† Walter Francis Buck,	*Stafford Springs.*	Δ. K. E. *House.*
† Alonzo Perine Burnett,	*West Summit, N. J.*	*Commons Club.*
† Charles Graham Chapin,	*Wilbraham, Mass.*	Ψ. Υ. *House.*
Emanuel Louis Chiesa,	*Brooklyn, N. Y.*	A. X. P. *House.*
† Frank Marshall Clark,	*Peekskill, N. Y.*	89 N. C.
Lewis Bates Codding, Jr.,	*Cochesett, Mass.*	B. Θ. Π. *House.*
Chester Graves Cole,	*Evanston, Ill.*	A. Δ. Φ. *House.*
David McKee Conway,	*Washington, D. C.*	Δ. K. E. *House.*
† Richard Cramm,	*Small Point, Newfoundland.*	*276 College St.*
Karl Warren Curtis,	*Williston, Vt.*	76 N. C.
Frank Roberts Custard,	*Scranton, Pa.*	57 N. C.
Philip Ayers Dales,	*Washington, D. C.*	25 N. C.
Norman Lambert Davidson,	*Wind Gap, Pa.*	*Commons Club.*
Donald Hardy Dorchester,	*Bristol.*	Ψ. Υ. *House.*
† Thomas Edward Eastman,	*Portland, Me.*	*206 S. Main St.*
Carl Leslie Eaton,	*Waltham, Mass.*	*Eclectic House.*
† William Ramsay Edmonds,	*Elizabeth, N. J.*	Ψ. Υ. *House.*
Maurice Millett Edwards,	*Methuen, Mass.*	*146 Lincoln St.*
† Albert Arnold Elsey,	*West Philadelphia, Pa.*	X. Ψ. *Lodge.*
† Julian Griffin Ely,	*Hamburg.*	B. Θ. Π. *House.*
Alexander Wilson Greer,	*Ridgefield.*	*Commons Club.*
† James Vernon Gridley,	*Paterson, N. J.*	B. Θ. Π. *House.*
† Joel Wright Hadley,	*Indianapolis, Ind.*	Ψ. Υ. *House.*
† Oscar Francis Haffner,	*Gloversville, N. Y.*	36 N. C.
† James Hale,	*Springfield, Mass.*	A. Δ. Φ. *House.*

NAMES.	RESIDENCES.	ROOMS.
† Frank Austin Hamilton,	*New Bedford, Mass.*	93 N. C.
Robert Moffat Henry,	*Sayre, Pa.*	46 N. C.
Samuel Prentice Hopley,	*Hartford.*	*Commons Club.*
† Chester Craig Irving,	*Fitchburg, Mass.*	*175 Lincoln St.*
Frank Willard Johnson,	*Long Island City, N. Y.*	Δ. T. Δ. *House.*
George Frederick Johnson,	*Riverside, N. J.*	6 S. C.
Warren Irving Keith,	*South Manchester.*	48 N. C.
Cecil George Kenyon,	*Pipersville, Pa.*	*Commons Club.*
† Kristen Kristensen,	*Gundtoft, Denmark.*	B. Θ. Π. *House.*
† Marshall Grant Lee,	*Pasadena, Cal.*	A. Δ. Φ. *House.*
† Chueng Tsuen Lei,	*Sunning, Canton, China.*	80 N. C.
Ralph Morgan Lewis,	*Pottsville, Pa.*	76 N. C.
† Harold Whittier Lidstone,	*Danforth, Me.*	Δ. T. Δ. *House.*
† Albert Ferdinand Lindstrom,	*Nutley, N. J.*	Ψ. Υ. *House.*
Norman Douglas Lothrop,	*Winthrop, Me.*	*58 Wyllys St.*
† Charles Francis McDonald, Jr.,	*Trenton, N. J.*	X. Ψ. *Lodge.*
† Willis Gordon MacLelland,	*Waterbury.*	A. X. P. *House.*
Sayre Paul Maddock,	*Sayre, Pa.*	46 N. C.
† Lawrence Parsons Marshall,	*Everett, Mass.*	*Eclectic House.*
† Raymond Lewis Martin,	*Barre, Vt.*	*305 William St.*
† Albert Charles Merriam,	*Woodmont.*	B. Θ. Π. *House.*
Frank Willard Morrell,	*New York, N. Y.*	X. Ψ. *Lodge.*
† David Valentine Morris,	*Cleveland, O.*	A. Δ. Φ. *House.*
Gorham Bert Munson,	*New Haven.*	Δ. K. E. *House.*
† Lawrence Bradford Neeld,	*Hartford.*	X. Ψ. *Lodge.*
Francis Osborn Noble,	*Schenectady, N. Y.*	A. Δ. Φ. *House.*
Charles Leroy Northridge,	*Worcester, Mass.*	56 N. C.
† Clifford Clark Payson,	*Westville.*	B. Θ. Π. *House.*
† Matias Perez,	*Dupax, P. I.*	Ω. Φ. *House.*
Ernest Ralph Perkins,	*Tilton, N. H.*	*Commons Club.*
† Francis Wilbur Pettengill,	*West Sullivan, Me.*	56 N. C.
† Edwin Morgan Pickop,	*Kensington.*	*Kensington.*
Fred Elbert Pitkin,	*Marshfield, Vt.*	*305 William St.*
† John Theodore Plate,	*Elizabeth, N. J.*	Δ. T. Δ. *House.*
Francis Wilcox Potter,	*Portland.*	35 N. C.
George Reuben Potter,	*Fitchburg, Mass.*	77 N. C.
† George Hibbard Purdy,	*Morrisonville, N. Y.*	54 N. C.
Robert Fulton Raymond, Jr.,	*Newton Centre, Mass.*	Ψ. Υ. *House.*

NAMES.	RESIDENCES.	ROOMS.
† Algernon Poole Reeves,	*Washington, D. C.*	Δ. K. E. *House.*
† Earle Edmunds Richardson,	*Rumford, Me.*	6 S. C.
† Lucien Loring Rock,	*Plattsburg, N. Y.*	54 N. C.
† Max Ruderman,	*Middletown.*	*77 Hotchkiss St.*
Robert Cotton Saltmarsh,	*Lakeport, N. H.*	Δ. T. Δ. *House.*
Ralph Elwood Sampson,	*Dexter, Me.*	*Commons Club.*
Charles Daniel Sapp,	*Baltimore, Md.*	*Commons Club.*
Harrison Monell Sayre,	*Madison, N. J.*	48 N. C.
† Charles William Seeholzer,	*Wappingers Falls, N. Y.*	19 O. H.
† George Warner Skilton,	*Thomaston.*	*27 Cross St.*
† Edward Crocker Sloan,	*Boston, Mass.*	Ψ. Υ. *House.*
† Charles Stewart Smith,	*Stamford.*	71 N. C.
Carl Leo Stearns,	*Westbrook, Me.*	*Commons Club.*
John Allen Stephens, Jr.,	*Albany, N. Y.*	Δ. K. E. *House.*
Frank Edward Stevens,	*Lexington, Okla.*	*Gymnasium.*
† Lucian Henry Stevens,	*Lexington, Okla.*	*Gymnasium.*
Henry Charles Stone,	*Hartford.*	*215 S. Main St.*
† George Elwood Stookey,	*Cambra, Pa.*	B. Θ. Π. *House.*
James Stanley Sutton,	*Yonkers, N. Y.*	Ψ. Υ. *House.*
† Walter Richard Talbot,	*Newark, N. J.*	61 N. C.
Linford Alexander Thomas,	*Canterbury, Del.*	A. X. P. *House.*
† Mehran Kafafian Thomson,	*Paterson, N. J.*	62 N. C.
† Harry Morgan Tiebout,	*Brooklyn, N. Y.*	47 N. C.
Charles Powell Townsend,	*Milton, N. Y.*	*276 College St.*
† Yu Ching Tu, *Chung Yang*,	*Hupeh, China.*	*149 Lincoln St.*
† Farrant Lewis Turner,	*Honolulu, Hawaii.*	69 N. C.
† Frank Trelease Underhill,	*Jersey City, N. J.*	61 N. C.
† Charles Laurence Uniacke,	*Wallingford.*	*57 Pine St.*
† Henry Atwater Van Dyke,	*Middletown.*	*Eclectic House.*
James Vincent Walsh,	*Middletown.*	*82 Hubbard St.*
† Norman Wigley,	*Beaver, Pa.*	A. Δ. Φ. *House.*
† Harold Wilkinson,	*Middletown.*	*11 Babcock St.*
† Otho Cheney Williams,	*West Corinth, Vt.*	*Commons Club.*
† Francis Lyon Winslow,	*Montclair, N. J.*	Δ. K. E. *House.*
Edwin Henry Witman,	*Berwick, Pa.*	Δ. K. E. *House.*
Truman Hollis Woodward,	*Rockville.*	*301 College St.*
† Leslie George Wright,	*Bristol.*	1 O. H.
† Lucien Francis Young,	*Minneapolis, Minn.*	Δ. T. Δ. *House.*

FRESHMEN—CLASS OF 1918.

NAMES.	RESIDENCES.	ROOMS.
† Alan Chichester Abeel,	*New York, N. Y.*	*24 Brainerd Ave.*
† Horace Mills Abrams,	*Albany, N. Y.*	Χ. Ψ. *Lodge.*
Samuel Spofford Ackerly,	*Brooklyn, N. Y.*	Χ. Ψ. *Lodge.*
† Leslie Adamson,	*West New Brighton, N. Y.*	Ω. Φ. *House.*
† Edwin Carl Anderson,	*Suncook, N. H.*	15 O. H.
Harley Frank Atwood,	*Glens Falls, N. Y.*	2 O. H.
† Raymond Charles Baker,	*Jermyn, Pa.*	57 N. C.
† Fred Bingham Barrows,	*Ayer, Mass.*	17 E. H.
Fernanda Leroy Barry,	*Long Branch, N. J.*	36 N. C.
† Paul Adams Bassett,	*Springfield Gardens, N. Y.*	95 N. C.
† Ralph Bradford Bayliss,	*Brooklyn, N. Y.*	69 N. C.
† Adolph Frederick Becker, Jr.,	*Elizabeth, N. J.*	11 O. H.
† Alfred Melville Cleave Bennett,	*Cheshire.*	13 O. H.
Benjamin Hezekiah Bissell,	*Meriden.*	17 E. H.
† Andrew John Blackmore,	*Barre, Vt.*	*13 Cross St.*
Everett Buell Blake,	*Chicago, Ill.*	18 N. C.
Charles Martin Boswell, Jr.,	*Philadelphia, Pa.*	6 O. H.
Lahman Van Hennigar Bower,	*Milwaukee, Wis.*	12 N. C.
Daniel Heston Boyd,	*Jersey City, N. J.*	12 O. H.
Robert Driscoll Boyle,	*Flushing, N. Y.*	Δ. K. E. *House.*
Lester Ray Bradbury,	*Bridgeport.*	32 N. C.
† Vernon Howard Brierley,	*Brooklyn, N. Y.*	Δ. K. E. *House.*
† Robert Weldon Brooks,	*Wallingford.*	7 N. C.
† Foster Lewis Burgess,	*Moosup.*	7 N. C.
John Burisch,	*Elizabeth, N. J.*	11 O. H.
Delbert Mead Burnett,	*Underhill, Vt.*	*69 Lawn Ave.*
† Charles Henry Carey,	*Mauch Chunk, Pa.*	*155 College St.*
† John Elmer Cavelti,	*Stratford.*	*146 Lincoln St.*
William Michael Citron,	*Middletown.*	*536 Main St.*
Paul Douglas Compton,	*Poughkeepsie, N. Y.*	13 N. C.
DuBois Hasbrouck Cornish,	*Saugerties, N. Y.*	19 E. H.
† Frederick J. Cox,	*Painesdale, Mich.*	*157 College St.*
† Paul Frederick Craig,	*Springfield, Mass.*	83 N. C.

NAMES.	RESIDENCES.	ROOMS.
† LeGrand Waldorf Curtis,	*Red Hook, N. Y.*	*146 Lincoln St.*
† Bronson Hawley Davis,	*Bridgeport.*	18 N. C.
Howard Peirce Davis,	*Houlton, Me.*	94 N. C.
† William Whitman Deacon,	*Strasburg, Pa.*	65 N. C.
Joseph Vincent Dempsey,	*Middletown.*	*71 Crescent St.*
† James Aylward Develin, Jr.,	*Philadelphia, Pa.*	88 N. C.
† James Edward Dooley,	*Middletown.*	*166 Cross St.*
† Wendell Jay Dunstan,	*Spokane, Wash.*	*68 Lawn Ave.*
† Arthur Nisbett Eagles, Jr.,	*Newark, N. J.*	101 N. C.
† Paul Frederick Eckstorm,	*Brewer, Me.*	99 N. C.
† Edwin Day Elliot,	*Nutley, N. J.*	*250 High St.*
Sherman Christie Ellis,	*Springfield, Mass.*	83 N. C.
Lynwood King Elmore,	*Burnside.*	9 N. C.
John Wesley Faust,	*Nanticoke, Pa.*	*Commons Club.*
† William David Fenton, Jr.,	*Portland, Ore.*	96 N. C.
Herbert Benson Finnegan,	*South Manchester.*	14 O. H.
† Wilson Kelty Fisher,	*Plano, Ill.*	X. Ψ. *Lodge.*
† Winfield Stitt Fisher,	*Plano, Ill.*	X. Ψ. *Lodge.*
† Kenneth Styles Foster,	*Patchogue, N. Y.*	64 N. C.
Bertram Charles Froidevaux,	*Collinsville.*	10 O. H.
Enoch Doble Fuller,	*Hanover, N. H.*	Δ. T. Δ. *House.*
† Gerald Meade Gantz,	*Leonia, N. J.*	73 N. C.
Emanuel Lawrence Gebauer,	*Henderson, Ky.*	92 N. C.
John Gray Glenn,	*Philipsburg, Pa.*	17 O. H.
Lloyd Shepard Grant,	*East Windsor Hill.*	9 N. C.
Harry Mills Grinton,	*New York, N. Y.*	*301 College St.*
Theodore James Grippin,	*Saratoga Springs, N. Y.*	*17 Broad St.*
Robert Darius Guinn,	*Hawley, Pa.*	*305 William St.*
Paul Kerlin Guthrie,	*Philadelphia, Pa.*	50 N. C.
Arthur Carl Adam Hacker,	*Albany, N. Y.*	3 O. H.
Warren Haines,	*Portland.*	*108 Lawn Ave.*
† Fremont Billings Hallock,	*New York, N. Y.*	*6 Pleasant St.*
† Watson Munroe Hannan,	*Madison, N. J.*	91 N. C.
† Luther Keefer Hannum, Jr.,	*Pottsville, Pa.*	3 N. C.
Ragnar Hanson,	*Middletown.*	*86 Church St.*
† Harold George Harmon,	*Hartford.*	Δ. T. Δ. *House.*
Henry Martyn Harman,	*New Rochelle, N. Y.*	Ψ. Υ. *House.*
Frank Douglas Harris,	*Middletown.*	*80 High St.*

NAMES.	RESIDENCES.	ROOMS.
Coleridge Wells Hart,	*Peekskill, N. Y.*	11 N. C.
Aubrey Cresson Davis Hartman,	*E. Downington, Pa.*	*301 College St.*
Robert Gray Hartsock,	*Carbondale, Pa.*	17 O. H.
Nahor Yard Hill,	*Morristown, Tenn.*	*Eclectic House.*
George Harold Hines,	*Middletown.*	*13 Babcock St.*
† William Duran Holman,	*South Manchester.*	14 O. H.
Albert Asa Houck,	*Elmira, N. Y.*	51 N. C.
† Garry de Neuville Hough, Jr.,	*New Bedford, Mass.*	65 N. C.
† George Brigden Hulse,	*Newark, N. J.*	X. Ψ. *Lodge.*
† William Joseph Hurley,	*Portland.*	*Portland.*
Mitchell Jenkins,	*Kingston, Pa.*	20 O. H.
Franklin Milton Johnson,	*Washington, D. C.*	21 N. C.
† Ralph Edward Jones,	*West Somerville, Mass.*	Δ. T. Δ. *House.*
† Reese Pughe Jones,	*Utica, N. Y.*	Ψ. Υ. *House.*
† Harold William Kephart,	*Brooklyn, N. Y.*	Δ. K. E. *House.*
† Harold Dean Krafft,	*Minneapolis, Minn.*	X. Ψ. *Lodge.*
† Gerald Penfield Kynett,	*West Philadelphia, Pa.*	6 O. H.
† Frederick Thompson Laing,	*Chelsea, Mass.*	Ω. Φ. *House.*
† Austin Witter Lane,	*East Orange, N. J.*	41 N. C.
† John George Washington Lang,	*Newark, N. J.*	15 N. C.
† Wilson Davis Langley,	*Schenectady, N. Y.*	*305 William St.*
George Raymond Larkin,	*Pittsfield, Mass.*	86 N. C.
Clifford Bronson Lehmann,	*Brooklyn, N. Y.*	*250 High St.*
† Carroll Herbert Lewis,	*Cincinnati, O.*	X. Ψ. *Lodge.*
† Donald Cooper Lewis,	*New York, N. Y.*	5 N. C.
† Morgan Noulton Lewis,	*Bridgeport.*	6 N. C.
† Harry Edwin Lindsey,	*Rochelle, Ill.*	7 O. H.
† Howard Willis Lindsey,	*Rochelle, Ill.*	7 O. H.
Elliott Colby Logan,	*Bridgeport.*	18 N. C.
Harry Ludwig Luerich,	*Newark, N. J.*	24 N. C.
William Wood McCarthy,	*Chicago, Ill.*	12 N. C.
Charles McDonald,	*Middletown.*	*343 Washington St.*
† Neil Macdonald, Jr.,	*Upper Montclair, N. J.*	23 N. C.
† Harold Edgar McGrath,	*East Northfield, Mass.*	86 N. C.
Herbert Lindsey Manchester,	*Attleboro, Mass.*	*250 High St.*
John Anson Markham,	*Hartford.*	98 N. C.
Leslie Martin,	*Stamford.*	A. Δ. Φ. *House.*
† Charles Wilbur Matthews,	*Port Washington, N. Y.*	59 N. C.

NAMES.	RESIDENCES.	ROOMS.
Augustus Moore Maxwell,	*Chicago, Ill.*	Δ. K. E. *House.*
† Wandell McMaster Mooney,	*Paterson, N. J.*	2 O. H.
William Arthur Moore,	*Brattleboro, Vt.*	*Commons Club.*
† William Thomas Morgan,	*New Haven.*	Ψ. Υ. *House.*
† Percy Peixotto Morningstar,	*New York, N. Y.*	Δ. K. E. *House.*
Desmond Murphy,	*Norwich.*	*250 High St.*
† Paul Oliphant Nafe,	*El Paso, Tex.*	X. Ψ. *Lodge.*
Hugh Culler Nelson,	*Charleston, S. C.*	16 E. H.
† Benedictus Emil Niese,	*Jersey City, N. J.*	81 N. C.
Harvey Zenos Nourse,	*Berlin.*	14 N. C.
† John Pomfret Nutting,	*Worcester, Mass.*	*157 College St.*
† Harold Metcalf Paine,	*Springfield, Mass.*	1 N. C.
† John Leonard Palmer,	*Milton-on-Hudson, N. Y.*	79 N. C.
† Ralph Edward Peck,	*New York, N. Y.*	3 N. C.
† Ivan Maurice Perkins,	*Penobscot, Me.*	10 O. H.
† Arthur William Phillips,	*Albion, N. Y.*	X. Ψ. *Lodge.*
† Lester Irving Pitt,	*Middletown.*	*12 Main St.*
† Charles Pullman Porter,	*New Rochelle, N. Y.*	20 O. H.
† H. Dart Porter,	*Albion, N. Y.*	X. Ψ. *Lodge.*
† Abram Butler Pratt,	*Troy, N. Y.*	*81 Home Ave.*
† Earle Wells Pughe,	*Utica, N. Y.*	16 O. H.
Guy Foote Pullen,	*Greenwich.*	29 N. C.
Russell Talcott Purnell,	*South Manchester.*	1 O. H.
† Gordon Bridge Randall,	*Melrose, Mass.*	74 N. C.
James Van Devanter Rariden,	*New York, N. Y.*	Δ. K. E. *House.*
Edgar Vernon Read,	*Middletown.*	*37 Fountain Ave.*
† Walter Royal Rearick,	*Danville, Ill.*	Δ. Τ. Δ. *House.*
Herbert LeVan Richards,	*Orange, N. J.*	82 N. C.
Charles William Riley,	*Burnside.*	2 O. H.
Bernard Charles John Roberg,	*New Haven.*	Β. Θ. Π. *House.*
Percy Couch Rogers,	*Gloucester, Mass.*	1 N. C.
† Harold Sigfrid Sanstrom,	*Portland.*	*Portland.*
Herman Gross Scott, Jr.,	*Pittsburgh, Pa.*	21 N. C.
William Arnold Shanklin, Jr.,	*Middletown.*	*325 High St.*
† Elmer Howard Shattuck,	*Laconia, N. H.*	4 N. C.
Raymond Dudley Sherwin,	*New Haven.*	19 E. H.
† Elton Robert Skilton,	*Morris.*	*27 Cross St.*
Lynn Howard Smith,	*Binghamton, N. Y.*	*17 Broad St.*

NAMES.	RESIDENCES.	ROOMS.
Potter Lewis Smith,	*Chicago, Ill.*	Δ. K. E. *House.*
Philip Harwood Spear,	*South Paris, Me.*	16 E. H.
Erland Myles Standish,	*Wethersfield.*	42 N. C.
Kenneth Porter Stevens,	*Danbury.*	*17 Brainerd Ave.*
Everett Fisk Strong,	*Natick, Mass.*	30 N. C.
† John Russell Studwell,	*Greenwich.*	Δ. T. Δ. *House.*
† Walter Frederick Sutter,	*Elizabeth, N. J.*	11 O. H.
† John Wadsworth Thomas,	*Ticonderoga, N. Y.*	96 N. C.
† James Livingstone Thompson,	*Indianapolis, Ind.*	Ψ. Υ. *House.*
Sidney Attilio Thompson,	*Greenwich.*	29 N. C.
† Earle Orchard Titus,	*Newark, N. J.*	*81 Home Ave.*
Alvin Hill Treadwell,	*Poughkeepsie, N. Y.*	79 N. C.
Russell Miller Tree,	*Freeport, N. Y.*	95 N. C.
† Frank Hopewell Underhill,	*Newton Centre, Mass.*	24 N. C.
† John Huber Underhill,	*Jersey City, N. J.*	88 N. C.
† Charles Herbert Veil,	*East Palestine, Ohio.*	Χ. Ψ. *Lodge.*
† Steacy Ernest Webster,	*Philadelphia, Pa.*	101 N. C.
† Frank Henry Wenner,	*Utica, N. Y.*	16 O. H.
† Oliver Gilman Whitney,	*Greenwich.*	*301 College St.*
† Howard Vincent Widdoes,	*Dexter, Me.*	12 O. H.
† Clifford Keith Wilbur,	*East Wareham, Mass.*	15 O. H.
† Albert Wild,	*Coscob.*	*149 Lincoln St.*
† Lawrence Edwin Williams,	*Geneva, N. Y.*	13 O. H.
† Mackenzie Williams,	*Brooklyn, N. Y.*	Β. Θ. Π. *House.*
Weir Williams,	*Evanston, Ill.*	Α. Δ. Φ. *House.*
Charles Myrick Winchester, Jr.,	*Albany, N. Y.*	12 O. H.
Harold Townsend Woolley,	*Little Neck, N. Y.*	85 N. C.

SPECIAL STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Charles David Fairman,	*New Haven.*	*Berkeley Div. Sch.*
Earle Stanley Hall,	*Rochester, N. Y.*	*317 William St.*
George Irvine Hiller,	*Philadelphia, Pa.*	*Berkeley Div. Sch.*
Clarence Leonard Johnson,	*Regina, Sask., Can.*	*Berkeley Div. Sch.*
Robert Henry Johnson,	*South Manchester.*	*Berkeley Div. Sch.*
Franklin Joiner,	*Belvidere, N. J.*	*Berkeley Div. Sch.*
Harold Webster Tillinghast,	*East Greenwich, R. I.*	*Commons Club.*
Sidney Wishart Wallace,	*Danville, Va.*	*Berkeley Div. Sch.*
Edgar Clair Weston,	*Altoona, Pa.*	*240 Court St.*
Eustace Paul Ziegler,	*Detroit, Mich.*	*177 Washington St.*

SUMMARY.

GRADUATE STUDENTS,	21
SENIORS,	67
JUNIORS,	81
SOPHOMORES,	111
FRESHMEN,	174
SPECIAL STUDENTS,	10
Total,	464

ABBREVIATIONS.

N. C.,	North College.
S. C.,	South College.
O. H.,	Observatory Hall.
E. H.,	East Hall.
J. H.,	Judd Hall.
F. H.,	Fisk Hall.
S. L.,	Scott Laboratory of Physics.
†	Scientific Course.

CLASSIFICATION BY RESIDENCE.

UNITED STATES.

Connecticut,	108
New York,	96
New Jersey,	54
Massachusetts,	47
Pennsylvania,	40
Maine,	20
Illinois,	15
Vermont,	13
New Hampshire,	11
District of Columbia,	7
Ohio,	5
Minnesota,	4
Michigan,	3
Maryland,	3
Indiana,	3
Texas,	2
Rhode Island,	2
California,	2
Delaware,	2
Oklahoma,	2
Tennessee,	2
Wisconsin,	2
Missouri,	1
North Carolina,	1
South Carolina,	1
Kansas,	1
Washington,	1
Virginia,	1
Kentucky,	1
Oregon,	1

FOREIGN COUNTRIES.

China,	4
Hawaii,	2
Canada,	1
England,	1
Italy,	1
Denmark,	1
Germany,	1
Newfoundland,	1
Philippine Islands,	1
Total,	464

GENERAL STATEMENT.

Courses of Study.—The College presents to its undergraduates the option of two parallel courses of study, each extending through four years, one leading to the degree of Bachelor of Arts, the other to the degree of Bachelor of Science. Either Latin or Greek is required for admission to the former course. In the Freshman year English is required of students of both courses. The rest of the work is elective from a limited number of courses, with the requirement that a candidate for the B. A. degree must take a three-hour course in either Latin or Greek, and a three-hour course in one of the following: Latin, Greek, Mathematics, Modern Languages; a candidate for the B. S. degree must take the following courses in college, unless he has presented them for admission: Trigonometry, and either Advanced Algebra, Solid Geometry, or Analytic Geometry; I. and II. French; I. and II. German. In the three remaining years, all the studies are elective, within the limits of a group system. Each student must elect a major study.

Special Courses. — Students who do not desire to complete either of the foregoing courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the college.

Graduate Studies.—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments. These courses are intended for those who do not desire to become candidates for the Master's degree, as well as for those who apply for admission to candidacy for such degree. The work of such students, whether candidates for a degree or not, is under the direction of the Committee on Graduate Instruction. The work of a graduate student may consist of undergraduate courses which he has not already completed, or work outside the curriculum assigned by his instructors, or both. Further information concerning graduate courses leading to the Master's degree is given on page 149.

REQUIREMENTS FOR ADMISSION.

For admission without condition the candidate must secure credit for 14½ units, a unit representing a year's work in a secondary school with four or five periods a week, and constituting approximately a quarter of a full year's work.

B. A. DEGREE.—Candidates for the B. A. degree must present English, 3 units, Elementary Algebra, 1½ units, Plane Geometry, 1 unit, Ancient History, 1 unit, and either Latin, 4 units, or Greek, 3 units; making a total of 10½ or 9½ units. The remaining units to make up a total of 14½ may be selected from any of those specified below. Unless both Latin and Greek are offered, candidates must present an elementary modern language, or take a corresponding course in college.

B. S. DEGREE.—Candidates for the B. S. degree must present English, 3 units, Elementary Algebra, 1½ units, Plane Geometry, 1 unit, History, 1 unit, one elementary modern language, 2 units; making a total of 8½ units. The remaining units to make up a total of 14½ may be selected from any of those specified below. Unless two units in science are offered, at least five hours of science must be taken in college.

SCALE OF VALUES.

	Units.
English,	3
Latin, 2 years,	2
3rd year,	1
4th year,	1
Greek, 2 years,	2
3rd year,	1
German—Elementary, 2 years,	2
Intermediate, 3rd year,	1
French—Elementary, 2 years,	2
Intermediate, 3rd year,	1

	Units.
History—Ancient History,	1
Mediaeval and Modern History,	½ or 1*
English History,	½ or 1*
American History,	½ or 1*
Mathematics—Elementary Algebra,	1½
Plane Geometry,	1
Solid Geometry,	½
Advanced Algebra,	½
Plane Trigonometry,	½
Physics, theoretical and practical,	1
Chemistry, theoretical and practical,	1
Physical Geography,	½ or 1*
Biology,	½ or 1*

REQUIREMENTS IN DETAIL.

ENGLISH.

The study of English in school has two main objects: (1) command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence, and appreciation.

Grammar and Composition.

The first object requires instruction in grammar and composition. English grammar should ordinarily be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition governing punctuation, the use of words, sentences, and paragraphs should be thoroughly mastered; and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise letter-writing, narration, description, and easy exposition and argument. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from his reading in literature. Finally, special instruction in language

* Depending on the length of the course.

and composition should be accompanied by concerted effort of teachers in all branches to cultivate in the student the habit of using good English in his recitations and various exercises, whether oral or written.

LITERATURE.

The second object is sought by means of two lists of books, headed respectively Reading and Study, from which may be framed a progressive course in literature covering four years. In connection with both lists, the student should be trained in reading aloud and be encouraged to commit to memory some of the more notable passages both in verse and in prose. As an aid to literary appreciation, he is further advised to acquaint himself with the most important facts in the lives of the authors whose works he reads and with their place in literary history.

A. READING.

The aim of this course is to foster in the student the habit of intelligent reading and to develop a taste for good literature, by giving him a first-hand knowledge of some of its best specimens. He should read the books carefully, but his attention should not be so fixed upon details that he fails to appreciate the main purpose and charm of what he reads.

With a view to large freedom of choice, the books provided for reading are arranged in the following groups, from each of which at least two selections are to be made, except as otherwise provided under Group I.

GROUP I. CLASSICS IN TRANSLATION.—The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the Odyssey, with the omission, if desired, of Books I., II., III., IV., V., XV., XVI., XVII.; the Iliad, with the omission, if desired, of Books XI., XIII., XIV., XV., XVII., XXI.; the Aeneid. The Odyssey, Iliad, and Aeneid should be read in English translations of recognized literary excellence.

For any selection from this group a selection from any other group may be substituted.

GROUP II. SHAKESPEARE.—Midsummer Night's Dream, Merchant of Venice, As You Like It, Twelfth Night, The Tempest, Romeo and Juliet, King John, Richard II., Richard III., Henry V., Coriolanus, *Julius Caesar, *Macbeth, *Hamlet.

GROUP III. PROSE FICTION.—Malory: Morte d'Arthur (about 100 pages); Bunyan: Pilgrim's Progress, Part I.; Swift: Gulliver's Travels (voyages to Lilliput and to Brobdingnag); Defoe: Robinson Crusoe, Part I.; Goldsmith: Vicar of Wakefield; Frances Burney: Evelina; Scott's novels: any *one*; Jane Austen's novels: any *one*; Maria Edgeworth: Castle Rackrent, or The Absentee; Dickens's novels: any *one*; Thackeray's novels: any *one*; George Eliot's novels: any *one*; Mrs. Gaskell: Cranford; Kingsley: Westward Ho! or Hereward, the Wake; Reade: The Cloister and the Hearth; Blackmore: Lorna Doone; Hughes: Tom Brown's Schooldays; Stevenson: Treasure Island, or Kidnapped, or Master of Ballantrae; Cooper's novels: any *one*; Poe: Selected Tales; Hawthorne; The House of the Seven Gables, or Twice Told Tales, or Mosses from an Old Manse; a collection of short stories by various standard writers.

GROUP IV. ESSAYS, BIOGRAPHY, ETC.—Addison and Steele: The Sir Roger de Coverley Papers, or Selections from The Tatler and Spectator (about 200 pages); Boswell: selections from the Life of Johnson (about 200 pages); Franklin: Autobiography; Irving: selections from the Sketch Book (about 200 pages), or Life of Goldsmith; Southey: Life of Nelson; Lamb: selections from the Essays of Elia (about 100 pages); Lockhart: selections from the Life of Scott (about 200 pages); Thackeray: Lectures on Swift, Addison, and Steele in the English Humourists; Macaulay: any one of the following essays: Lord Clive, Warren Hastings, Milton, Addison, Goldsmith, Frederic the Great, Madame d' Arblay; Trevelyan: selections from the Life of Macaulay (about 200 pages); Ruskin: Sesame and Lilies, or selections (about 150 pages); Dana: Two Years before the Mast; Lincoln: selections, including at least the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, the Letter to Horace Greeley, together with a brief memoir or estimate of Lincoln;

* If not chosen for study under B.

Parkman: The Oregon Trail; Thoreau: Walden; Lowell: selected Essays (about 150 pages); Holmes: The Autocrat of the Breakfast Table; Stevenson: An Inland Voyage, and Travels with a Donkey; Huxley: Autobiography, and selections from Lay Sermons, including the addresses on Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk; a collection of Essays by Bacon, Lamb, DeQuincey, Hazlitt, Emerson, and later writers; a collection of letters by various standard writers.

GROUP V. POETRY. — Palgrave's Golden Treasury (First Series), Books II. and III., with special attention to Dryden, Collins, Gray, Cowper, and Burns; Palgrave's Golden Treasury (First Series), Book IV., with special attention to Wordsworth, Keats, and Shelley (if not chosen for study under B); Goldsmith: The Traveller and The Deserted Village; Pope: The Rape of the Lock; a collection of English and Scottish ballads, as, for example, some Robin Hood ballads, The Battle of Otterburn, King Estmere, Young Beichan, Bewick and Grahame, Sir Patrick Spens, and a selection from later ballads; Coleridge: The Ancient Mariner, Christabel, and Kubla Khan; Byron: Childe Harold, Canto III. or IV., and the Prisoner of Chillon; Scott: The Lady of the Lake, or Marmion; Macaulay: The Lays of Ancient Rome, The Battle of Naseby, The Armada, Ivry; Tennyson: The Princess, or Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur; Browning: Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Hervé Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City, The Italian in England, The Patriot, The Pied Piper, De Gustibus, Instans Tyrannus; Arnold: Sohrab and Rustum, and The Forsaken Merman; selections from American poetry, with special attention to Poe, Lowell, Longfellow, and Whittier.

B. STUDY.

This part of the requirement is intended as a natural and logical continuation of the student's earlier reading, with greater stress laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions. The

books provided for study are arranged in four groups, from each of which one selection is to be made.

GROUP I. DRAMA.—Shakespeare: Julius Caesar, Macbeth, Hamlet.

GROUP II. POETRY.—Milton: L'Allegro, Il Penseroso, and either Comus or Lycidas; Tennyson: The Coming of Arthur, The Holy Grail, and The Passing of Arthur; the selections from Wordsworth, Keats, and Shelley in Book IV. of Palgrave's Golden Treasury (First Series).

GROUP III. ORATORY.—Burke: Speech on Conciliation with America; Macaulay's two Speeches on Copyright and Lincoln's Speech at Cooper Union; Washington's Farewell Address and Webster's First Bunker Hill Oration.

GROUP IV. ESSAYS.—Carlyle: Essay on Burns, with a selection from Burns's Poems; Macaulay: Life of Johnson; Emerson: Essay on Manners.

EXAMINATION.

However accurate in subject-matter, no paper will be considered satisfactory if seriously defective in punctuation, spelling, or other essentials of good usage.

The examination will be divided into two parts, one of which will be on grammar and composition, and the other on literature.

In grammar and composition, the candidate may be asked specific questions upon the practical essentials of these studies, such as the relation of the various parts of a sentence to one another, the construction of individual words in a sentence of reasonable difficulty, and those good usages of modern English which one should know in distinction from current errors. The main test in composition will consist of one or more essays, developing a theme through several paragraphs; the subjects will be drawn from the books read, from the candidate's other studies, and from his personal knowledge and experience quite apart from reading. For this purpose the examiner will provide several subjects, perhaps eight or ten, from which the candidate may make his own selections. He will not be expected to write more than four hundred words per hour.

The examination in literature will include:

A. General questions designed to test such a knowledge and appreciation of literature as may be gained by fulfilling the requirements defined under A. READING, above. The candidate will be required to submit a list of the books read in preparation for the examination, certified by the principal of the school in which he was prepared; but this list will not be made the basis of detailed questions.

B. A test on the books prescribed for study, which will consist of questions upon their content, form, and structure, and upon the meaning of such words, phrases, and allusions as may be necessary to an understanding of the works and an appreciation of their salient qualities of style. General questions may also be asked concerning the lives of the authors, their other works, and the periods of literary history to which they belong.

LATIN.

I. AMOUNT AND RANGE OF READING REQUIRED.

1. The Latin reading required of candidates for admission to the B. A. course, without regard to the prescription of particular authors and works, is not less *in amount* than Caesar, Gallic War, I.–IV.; Cicero, the orations against Catiline, for the Manilian Law, and for Archias; Vergil, Aeneid, I.–VI.

2. The amount of reading specified above should be selected by the schools from the following authors and works: Caesar (Gallic War and Civil War) and Nepos (Lives); Cicero (orations, letters, and De Senectute) and Sallust (Catiline and Jugurthine War); Vergil (Bucolics, Georgics, and Aeneid) and Ovid (Metamorphoses, Fasti, and Tristia).

II. SUBJECTS AND SCOPE OF THE EXAMINATIONS.

1. Translation at Sight. Candidates will be examined in translation at sight of both prose and verse. In vocabulary, constructions, and range of ideas, the passages set will be suited to the preparation secured by the reading indicated above.

2. Prescribed Reading. Candidates will be examined also upon the following prescribed reading: Cicero, orations for the Manilian Law and for Archias, and Vergil, Aeneid, I., II., and either IV. or VI. at the option of the candidate, with questions

on subject-matter, literary and historical allusions, and prosody. Every paper in which passages from the prescribed reading are set for translation will contain also one or more passages for translation at sight; and candidates must deal satisfactorily with both these parts of the paper, or they will not be given credit for either part.

The papers set by the College Entrance Examination Board, corresponding to the above requirements, are Latin 4 and 5.

3. Grammar and Composition. The examinations in grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose. The words, constructions, and range of ideas called for in the examinations in composition will be such as are common in the reading of the year, or years, covered by the particular examination.

The papers set by the College Entrance Examination Board, corresponding to the above requirements, are Latin 1 and 2.

In the case of candidates who desire credit for *two years'* work in Latin, the required reading is not less *in amount* than Caesar, Gallic War, I.–IV., and should be selected from the following: Caesar (Gallic War and Civil War) and Nepos (Lives). The test is on ability to read at sight, and no part of the reading is prescribed for examination. The corresponding paper of the College Entrance Examination Board is Latin 3. For *three years'* credit, the required reading is not less *in amount* than Caesar, Gallic War, I.–IV., and Cicero, the orations against Catiline, for the Manilian Law, and for Archias; this reading should be selected from Caesar (Gallic War and Civil War) and Nepos (Lives), Cicero (orations, letters, and De Senectute) and Sallust (Catiline and Jugurthine War). Cicero's orations for the Manilian Law and for Archias are prescribed for examination, in addition to the translation at sight. The corresponding paper of the College Entrance Examination Board is Latin 4. For this may be substituted, if desired, the examination in fourth-year Latin, Vergil and Translation of Poetry at sight (Latin 5).

Certificates for two years of Latin must state that the candidate has had systematic practice, and has exhibited satisfactory

proficiency, in reading at sight Latin of the average difficulty of Caesar; certificates for three years must vouch for similar practice and proficiency in reading at sight Latin of the average difficulty of either Cicero's orations or Vergil's Aeneid; and certificates for four years must vouch for such practice and proficiency in reading at sight Latin of the average difficulty of both Cicero's orations and Vergil's Aeneid.

GREEK.

1. Greek grammar, including prosody. The following text-books are recommended: Hadley-Allen's, Goodwin's, or Babbitt's.

2. Xenophon,—Anabasis, books I.–IV.

3. Homer,—Iliad, books I.–III.

4. Translation at sight of one or more passages from Xenophon.

5. Translation into Greek of easy narrative passages based on the required books of the Anabasis.

To meet the full requirement in Greek, candidates must pass the following examinations of the College Entrance Examination Board: Greek *a i*, *a ii*, *b*, *c*, *g*.

GERMAN.

ELEMENTARY (counting as two units).—Such a knowledge of the language is required as may be obtained by the reading of at least 300 pages, part of which should be read at sight. It is recommended that there be sufficient aural and oral practice to enable the student to write simple German prose from dictation and to read the language aloud with a correct and intelligible pronunciation. The ability to answer simple questions in German is also highly important. The examination consists of the translation at sight into English of easy passages of German, elementary grammatical questions, and the translation of simple English sentences into German. To meet this requirement two years' work will generally be necessary.

INTERMEDIATE.—The requirement includes the reading of at least 300 additional pages of German (not more than half of which should be fiction), and regular practice in writing German. Further practice in speaking German is

recommended, sufficient to enable the student to understand simple spoken German, and to express simple ideas in the language. At least one additional year of study will be necessary to meet this requirement.

FRENCH.

ELEMENTARY (counting as two units).—Such a knowledge of the language is required as may be obtained by the reading of at least 400 pages, part of which should be read at sight. The examination consists of the translation at sight into English of easy passages of French, elementary grammatical questions, and the translation of simple English sentences into French. To meet this requirement two years' work will generally be necessary.

INTERMEDIATE.—The requirement includes the reading of not less than 600 additional pages of French (including at least two works of a dramatic character), and regular practice in writing and speaking French. At least one additional year of study will be necessary to meet this requirement.

HISTORY.

1. Ancient History to the death of Charlemagne (814).
2. Mediaeval and Modern European History from the death of Charlemagne (814) to the present time.
3. English History.
4. American History and Civil Government.

These four courses are outlined in *The Study of History in Schools: Report to the American Historical Association by the Committee of Seven* (1899), and with more detail in *A History Syllabus for Secondary Schools . . . . by a Special Committee of the New England History Teachers' Association* (1904), and in *Syllabus for Secondary Schools, 1910*, published by the University of the State of New York. These courses are identical with those scheduled for examination by the College Entrance Examination Board.

In each of the above courses the following requirements must be met:

1. One year of historical work, wherein the study is given five times per week, or two years of historical work, wherein the study is given three times per week.

2. Such general knowledge of the whole course as may be acquired from the study of an accurate text-book, amounting to not less than 500 pages.

3. A fuller knowledge derived from suitable collateral reading, in books of a less elementary nature, amounting to at least 500 pages.

4. Comparisons between historical characters, periods, and events, and in general the power to combine in orderly fashion the results of reading, and to exercise judgment as well as memory.

5. Geographical knowledge, tested by the location of places, movements, and territorial changes on an outline map, by physical features wherever possible, as well as by political features.

Schools having the certificate privilege must certify only those courses in history actually pursued in the high school and must omit any courses taken in the grammar school, or merely passed on examination, or not complying with the above requirements.*

The Regents' diplomas and supplementary pass cards of the University of the State of New York for the *five*-hour examinations will be received as covering the first, third, and fourth of the above groups, and for the three hour examinations in *both* Modern History I. and Modern History II. as covering the second of the above groups.†

Candidates for the B.A. degree must present Ancient History, the first of the above groups, and may, in addition, present

* In case of schools entitled to the certificate privilege, where any of the courses in history are such that they do not meet the above requirements, the teacher should give the student a detailed statement of the courses taken and of his grades, which statement will be considered in connection with such examination as may be deemed necessary to determine the amount of credit to be allowed. In no case will account be taken of a course in Greek History which does not extend at least to the death of Alexander (B. C. 323), or of a course in Roman History which does not extend at least to the death of Marcus Aurelius (A. D. 180). No account will be taken of any course of less than five periods for a half-year, or three periods for a year.

† No credit will be allowed for the *three*-hour examination in Ancient History. Temporarily, the three-hour examinations in the other subjects will be credited for a half-unit. No credit is given for Elementary United States History and Civics, or Civics, or Economics.

one or more of the other groups. Candidates for the B. S. degree must present at least one of the above groups, preferably the fourth (American History and Civil Government), and, in addition, may present one or more of the other groups.

MATHEMATICS.

1. ELEMENTARY ALGEBRA.

(*a*) Algebra to Quadratics. The four fundamental operations for rational algebraic expressions. Factoring, determination of highest common factor and lowest common multiple by factoring. Fractions, including complex fractions, and ratio and proportion. Linear equations, both numerical and literal, containing one or more unknown quantities. Problems depending on linear equations. Radicals, including the extraction of the square root of polynomials and of numbers. Exponents, including the fractional and negative.

(*b*) Quadratics and beyond. Quadratic equations, both numerical and literal. Simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations. Problems depending on quadratic equations. The binomial theorem for positive integral exponents. The formulas for the nth term and the sum of the terms of arithmetical and geometric progressions, with applications.

2. PLANE GEOMETRY.

The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons, and the measurement of the circle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of lines and plane surfaces.

3. SOLID GEOMETRY.

The usual theorems and constructions of good text-books, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of surfaces and solids.

4. ADVANCED ALGEBRA.

Permutations and combinations, limited to simple cases. Complex numbers, with graphical representation of sums and differences. Determinants, chiefly of the second, third, and fourth orders, including the use of minors and the solution of linear equations. Numerical equations of higher degree, and so much of the theory of equations, with graphical methods, as is necessary for their treatment, including Descartes' rule of signs and Horner's method, but not Sturm's functions or multiple roots.

5. PLANE TRIGONOMETRY.

Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles. Proofs of principal formulas, in particular for the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas. Solution of trigonometric equations of a simple character. Theory and use of logarithms (without the introduction of work involving infinite series). The solution of right and oblique triangles, and practical applications.

PHYSICS.

The course of instruction should include:

(1) The careful study of a standard text-book, for the purpose of obtaining a connected and comprehensive view of the subject.

(2) Lecture table demonstrations, mainly qualitative, illustrating important facts and phenomena and their practical applications.

(3) Individual laboratory work, consisting of experiments requiring at least the time of thirty double periods. The experiments performed by each student should number at least 30. They should be chiefly quantitative, and so chosen as to give a wide range of observation and practice. They should be neatly recorded in a suitable note-book, *indexed, and certified by the instructor.* This book should be deposited at the Secretary's office for examination, when the candidate presents himself for admission to college.

The above requirements are intended to be identical with those of the College Entrance Examination Board, as set forth in their Document No. 68. Teachers of physics are advised to consult this document for a valuable syllabus of topics and list of experiments.*

CHEMISTRY.

The requirements for admission in chemistry may be summarized as follows:

(1) Individual laboratory work, comprising at least forty experiments. The candidate who is examined in chemistry for admission to college must present his original note-book containing a record in his own words of the experiments, and of his observations and conclusions in connection with them. The note-book should include *an index of the experiments performed, and must be certified by the instructor.* It should be deposited for inspection at the Secretary's office at the time when the candidate presents himself for admission to college.

(2) Instruction by lecture table demonstrations, covering the more important facts and principles of chemistry.

(3) The thorough study of at least one standard text-book, for the acquisition of a comprehensive and connected view of the subject.

These requirements are intended to be identical with those of the College Entrance Examination Board. Teachers who desire to meet them should consult Document No. 68 of the Board.*

PHYSICAL GEOGRAPHY.

In physical geography, such a knowledge of the subject is required as may be gained from the study of the text-book of any one of the following authors: Salisbury, Tarr, Davis, Gilbert and Brigham, Hinman, Dryer, Hopkins, Geikie. Certificates in physical geography will not be accepted without examination, with credit of one half-unit, unless one of the text-books above mentioned has been used, and the time devoted to the study has been at least the equivalent of four

* Address College Entrance Examination Board, P. O. Sub-Station 84, New York City. The price of the document is ten cents.

exercises a week for a half-year. Certificates will not be accepted without examination, with credit of one unit, unless one of the text-books above mentioned has been used, supplemented by collateral reading or laboratory work, and the time devoted to the study has been at least the equivalent of four exercises a week for a year.

BIOLOGY.

Credit will be given in biology for either one-half unit or for one unit, according to the amount of time the student has given to the study. To obtain a credit of one unit, the student must have given to the study the equivalent of four or five hours a week for a year. Credit will be allowed for work in either botany or zoölogy, any of the modern text-books in these subjects being recognized as satisfactory. If the student desires credit for a unit in botany he is expected to have a knowledge of both structural and morphological botany, and to have a practical familiarity with the method of analyzing flowers and using analytical keys. In zoölogy a more thorough comprehension of the structure and classification of animals is expected if a unit credit is given than if only a half unit. In case a student has had an extended course in physiology, this may be accepted in place of botany.

SPECIAL COURSES.

Special students, not candidates for a degree, may be admitted, upon passing such examinations as the Faculty shall in each case prescribe. (See also page 32.)

GENERAL REGULATIONS CONCERNING ADMISSION.

ADVANCED STANDING.—All candidates for advanced standing must satisfy the Faculty of their proficiency in the preparatory studies, the required studies already pursued by the classes they propose to enter, and the proper quota of elective studies, or studies recognized as equivalents therefor. A certificate of

standing in another college is not accepted as evidence of such proficiency, without such further inquiry or examination as may be necessary in the judgment of the respective instructors.

PRELIMINARY EXAMINATIONS.—Preliminary examinations in any of the requirements for admission may be taken a year or more before entering college, and a candidate will receive credit for any subjects thus passed in advance.

DATE AND PLACE OF EXAMINATIONS.—Examinations for admission are held twice each year, in June and in September.

In June the entrance examinations of the college are those of the College Entrance Examination Board, of which Wesleyan University is a member. An application for the privilege of taking these examinations must be made to the Secretary of the College Entrance Examination Board, Post Office Sub-Station 84, New York, N. Y., from whom all necessary information regarding the June examinations can be obtained. These examinations will be held June 14–19, 1915, at a large number of widely distributed points, including Middletown.

Applications for examination at points in the United States east of the Mississippi River (also at Minneapolis, St. Louis, and other points on the Mississippi River) must be received by the Board on or before Monday, May 31, 1915; applications for examination elsewhere in the United States or in Canada must be received on or before Monday, May 24, 1915; and applications for examination at points outside of the United States and Canada must be received on or before Monday, May 10, 1915. In order to facilitate the making of arrangements for the proper conduct of the examinations, it is desired that all applications be filed as early as possible.

Each application filed in accordance with the foregoing requirements must be accompanied by the examination fee, which is $5.00 for candidates examined at points in the United States and Canada, and $15.00 for candidates examined at points outside the United States and Canada. This fee should be remitted by postal order, express order, or draft on New York, payable to the College Entrance Examination Board.

Applications received later than the dates named above will be accepted when it is practicable to arrange for the examination of the candidates concerned, but only upon the payment of

$5.00 in addition to the regular fee. The blank forms necessary for making this application may be obtained only from the Secretary of the College Entrance Examination Board.

The fees of candidates for examination in June, 1915, whose applications have been accepted by the Secretary, can under no circumstances be returned unless the request for their return is received on or before Monday, June 7, 1915.

A candidate for examination in two or more years will be required to pay the examination fee in each year.

The examinations in September will be conducted by the college, and no fees will be charged. They will be held only in Middletown. The date of the examination in 1915 will be September 22–23.

ADMISSION BY CERTIFICATE.—Certificates covering the foregoing requirements for admission to college are received from certain schools of good standing, which have been approved by the Faculty. A certificate will not be received unless it covers decidedly the major part of the requirements for admission.

No certificate will be received from any school in New England which has not been approved by the New England College Entrance Certificate Board, of which this college is a member. The Secretary of the Board is Professor Frank W. Nicolson, of Wesleyan University, Middletown, Conn., to whom applications from New England schools for the certificate privilege should be addressed. Such applications must reach the Secretary not later than April first, if approval is desired for the next academic year.

Certificates of the College Entrance Examination Board will be received in lieu of examination in the subjects which they cover.

Diplomas issued by the Regents of the University of the State of New York, and pass cards supplementary to such diplomas, will be received in lieu of examination in the subjects which they cover. Regents' certificates will also be received, provided they cover decidedly the major part of the requirements for admission.

Certificates from preparatory schools and Regents' diplomas are never accepted in lieu of examination for advanced standing.

Students entering by certificate are considered as on trial until the completion of the mid-year examinations. A student

admitted to college on certificate, who is dismissed during his Freshman year on account of inability to keep up with his class, must take examinations in all subjects required for admission, in case he desires to return to college.

Detailed information concerning admission by certificate may be obtained on application to the Secretary of the Faculty.

ADMISSION OF WOMEN.—Women were first admitted to the University in 1872. The Trustees voted, February 26, 1909, that no women should be admitted in any class later than that entering in 1909. Women may be admitted, however, as graduate students.

Satisfactory evidence of good moral character will be required in the case of all candidates for admission; and certificates of honorable dismissal will be required from those who have been members of other colleges.

COURSES OF INSTRUCTION.

For regulations concerning selection of studies, see page 104.

Bracketed courses are not given this year, but will, in most cases, be given next year.

The figures [1] and [2] following the number of a course indicate respectively that the course is offered for the first or the second half-year.

The Roman numerals in parentheses following each course indicate the examination group to which it is assigned. For table of groups, see pages 102 and 103.

The place of meeting of each course is indicated by means of the following abbreviations: F. H.=Fisk Hall; J. H.=Judd Hall; O. H.=Observatory Hall; S. L.=Scott Laboratory of Physics; CHEM. LAB., BIOL. LAB.=Chemical, Biological Laboratory.

An asterisk prefixed to the number of a course indicates that it can be elected only with the previous approval of the instructor; such approval must be *in writing* and must be handed in by the student *along with his list of electives.*

LATIN.

PROFESSORS HARRINGTON, NICOLSON, AND HEWITT.

Of the following courses in Latin, Courses I. and I.A are given every year, the remaining courses usually in alternate years only, the bracketed courses being omitted in 1914-15. Either Course I. in Latin or Course I. in Greek is required of all candidates for the degree of B. A. Course I.A should be elected in Freshman year by all students intending to pursue any further study of the classics. Courses II.-VI. are elective for those who have taken Course I. Courses I., I.A, two of Courses II.-V., and any one of Courses VI., XV., and XVI. are required of candidates for preliminary honors in classics. Courses VII.-XX. are intended primarily for those who have taken at least Course I. and two of Courses II.-V. But Courses XV. and XIX. may by special permission of the instructor be elected by those who have taken only Course I.; and students of marked ability in the reading of Latin, who are taking one of Courses II.-V., may be admitted to certain of the other courses at the same time by special permission of the instructor, to whom application should in each case be made.

I. LIVY,—Selections *(first half-year).* TERENCE,—Heauton Timoroumenos; PLAUTUS,—Mostellaria *(second half-year).* Exercises in sight translation throughout the year. SECTION

[XIV.[2] CATULLUS AND THE LYRIC ART OF THE ROMANS. The beginnings of lyric poetry among the Romans, with a brief study of its later development and of lyric forms. *Twice a week (second half-year).* PROFESSOR HARRINGTON.]

XV.[1] ROMAN PRIVATE LIFE AND SOCIAL INSTITUTIONS. A course of lectures, illustrated by photographs, engravings, and lantern slides, and requiring some collateral study of original and of secondary authorities, and the careful preparation of note-books. *Mon., Wed., Fri., at 12 (first half-year).* 31 F. H. PROFESSOR HARRINGTON. (V.)

XVI.[2] HISTORICAL LATIN GRAMMAR. Lectures on the historical development of Latin grammar, as regards both forms and syntax, with illustrative readings in inscriptions and in early Roman literature. *Mon., Wed., Fri., at 12 (second half-year).* 31 F. H. PROFESSOR HARRINGTON. (V.)

[*XVII.[1] LATIN EPIGRAPHY. An introductory course, with special attention to inscriptions of historical interest. The course is prefaced by a brief survey of the general classes and formal characteristics of Latin inscriptions, based upon Egbert's Introduction. *Twice a week (first half-year).* PROFESSOR HARRINGTON.]

[*XVIII.[2] ROMAN TOPOGRAPHY AND PUBLIC BUILDINGS. A course of lectures, illustrated by photographs, engravings, and lantern slides, and requiring some collateral study of original and of secondary authorities, and the careful preparation of note-books. *Twice a week (second half-year).* PROFESSOR HARRINGTON.]

[XIX.[2] ROMAN POLITICAL INSTITUTIONS AND LAW. An introductory course, based partly on original, and partly on modern authorities, given by lectures and the use of text-books. *Twice a week (second half-year).* PROFESSOR HARRINGTON.]

[XX. LATIN LITERATURE SINCE THE ROMAN EMPIRE. Lectures introductory to the literature written in the universal language of the ecclesiastical and learned European world from the fifth century to the seventeenth century. Illustrative readings from some of the most interesting types of prose and

poetry, including the novel, the drama, the dialogue, the lyric, the writings of the Church Fathers. *Twice a week.* PROFESSOR HARRINGTON.]

For the most successful prosecution of even the earlier courses in Latin, ability to read German prose on philological subjects is decidedly advantageous, and for the most advanced courses it is generally necessary. Students, therefore, who look forward to the study of Latin beyond the more elementary courses, and who have on admission to college no acquaintance with German, should devote special attention to that subject in the Freshman year.

GREEK.

PROFESSORS HEIDEL AND HEWITT; MR. JONES (Squire Fellow).

A. BEGINNERS' COURSE. Grammar and exercises; Xenophon,—Anabasis. *Mon., at 10; T., Th., at 8; Fri., at 12.* 31 F. H. PROFESSOR HEWITT and MR. JONES. (VII.)

Credit for Course A will be given only to students who attain in it a grade of three or above and subsequently pass Course B and Course I. in Greek.

B. HOMER,—Odyssey. *Th., at 8.* 37 F. H. PROFESSOR HEWITT. (VII.)

Course B is intended for students who have taken Course A or its equivalent.

I. XENOPHON,—Memorabilia; PLATO,—Euthyphro, Apology, and Crito; HERODOTUS,—Selections. *Mon., Wed., Fri., at 10.* 37 F. H. PROFESSOR HEIDEL. (III.)

Course I. is intended for students who have completed the entrance requirements in Greek, or Courses A and B. It may, however, be taken by those who have completed only Course A, or its equivalent, provided that they have attained a grade of three or above and are taking Course B.

Course I. in Greek, or Course I. in Latin, is required of candidates for the B. A. degree. Course I. is required of candidates for preliminary honors in classics.

II. ATTIC ORATORS *(first half-year)*. EURIPIDES,—Alcestis; ARISTOPHANES,—Clouds *(second half-year)*. *Wed., Fri., at 8.* 31 F. H. PROFESSOR HEWITT. (I.)

Course II. is elective for those who have taken Course I. It is required of candidates for preliminary honors in classics.

III.[1] GREEK PROSE COMPOSITION. *Tu., Th., at 11 (first half-year)*. 37 F. H. PROFESSOR HEIDEL. (X.)

Course III. is elective for those who take, or have taken, Course II. Either Course III. or Course IV. is required of candidates for preliminary honors in classics.

[IV. HISTORY OF GREEK LITERATURE. Recitations, lectures, and collateral reading are supplemented by a more intensive study of selected portions of the literature. Especial stress is laid upon the relation between the Greek and English literatures, with respect both to literary form and to subject matter. Knowledge of Greek is not required. *Twice a week.* PROFESSOR HEWITT.]

Course IV. is elective for Juniors, or for Sophomores who are taking Course II. Either Course III. or Course IV. is required of candidates for preliminary honors in classics.

Courses III. and IV. are given in alternate years, Course IV. being omitted in 1914–15.

V.[1] PLATO,—Gorgias; DEMOSTHENES,—The Oration on the Crown. Collateral study of Greek rhetoric and oratory. *Mon., Wed., Fri., at 8 (first half-year)*. 37 F. H. PROFESSOR HEIDEL. (I.)

VI.[2] THE GREEK LYRIC POETS, — including selections from Pindar and Bacchylides. *Mon., Wed., Fri., at 8 (second half-year)*. 37 F. H. PROFESSOR HEIDEL. (I.)

Courses V. and VI. are elective for those who have taken Course II.

[VII. AESCHYLUS, — Prometheus Bound. SOPHOCLES, — Oedipus the King, and Antigone. Lectures and collateral reading on the Greek theatre *(first half-year)*. EURIPIDES,— Iphigenia among the Taurians, and Cyclops. ARISTOPHANES,

—Frogs. Collateral reading on the Greek drama *(second half-year). Three times a week.* PROFESSOR HEIDEL.]

Course VII. is elective for those who have taken Course II. It is omitted in 1914–15.

VIII.[1] NEW TESTAMENT IN GREEK. *Tu., Th., at 2 (first half-year).* 32 F. H. PROFESSOR HEWITT.

Course VIII. is elective for those who take, or have taken, Course II.

IX.[2] THEOCRITUS AND LUCIAN. *Tu., Th., at 11 (second half-year).* 37 F. H. PROFESSOR HEWITT. (X.)

Course IX. is elective for those who have taken Course II.

X. GREEK CIVILIZATION. Lectures and collateral reading on the political institutions, the art, religion, and scientific thought of ancient Greece in relation to modern civilization. Knowledge of Greek is not required. *Mon., Wed., Fri., at 11.* 37 F. H. PROFESSOR HEIDEL. (IV.)

Course X. is elective for Juniors.

[XI.[1] PLATO,—Republic. *Three times a week (first half-year).* PROFESSOR HEIDEL.]

[XII.[2] GREEK LITERARY CRITICISM. Aristotle's Poetics, the treatise On the Sublime, and selections from Dionysius of Halicarnassus. *Three times a week (second half-year).* PROFESSOR HEIDEL.]

Courses XI. and XII. are elective for those who have taken Courses V. and VI., or Course VII. They are omitted in 1914–15.

HEBREW.†

ELEMENTARY COURSE. Davidson's Grammar. The verbal and nominal forms and the elements of syntax are thoroughly mastered. Careful attention is given to the acquisition of a practical, working vocabulary. Short sentences in Hebrew are read with every lesson, accompanied by exercises in Hebrew

† Students may receive credit for work in this department pursued at the Berkeley Divinity School.

composition *(first half-year)*. Kittel's Hebrew Bible. The Brown, Driver, and Briggs Hebrew Lexicon. Selections from Genesis. The Book of Ruth. Sight reading *(second half-year)*. *Mon., Tu., Th., Fri., at 12.* Berkeley Divinity School. PROFESSOR VANDERBOGART.

GERMAN.

PROFESSOR FIFE; ASSOCIATE PROFESSOR CURTS.

I. ELEMENTARY GERMAN. Bagster-Collins,—First Book in German; Martini's First German Reader; Gerstaecker,—Irrfahrten; Wilbrandt,—Jugendliebe. Exercises in conversation and composition, based on the texts read. SECTION 1, *Mon., Wed., Fri., at 11;* SECTION 2, *Tu., Th., Sat., at 11.* 11 F. H. ASSOCIATE PROFESSOR CURTS. (X.)

Candidates for the degree of B. S. are required to complete the equivalent of I. and II. German, as well as I. and II. French. Such of these courses as they have not pursued and passed in before entering college, they must take as soon as practicable after entering.

II. A. INTERMEDIATE GERMAN. Keller,—Die drei gerechten Kammacher; Schiller,— Wilhelm Tell; Heine,— Die Harzreise, and Buch Le Grand; Meyer-Förster,—Karl Heinrich. A part of this reading is done at sight. The course includes a review of elementary grammar, with paraphrases and prose composition. Bacon's Elements of German. Bacon's German Composition. *Tu., Th., Sat., at 8.* 11 F. H. PROFESSOR FIFE. (VII.)

Course II. A is elective for those who have taken Course I. in college.

II. B. INTERMEDIATE GERMAN. Keller,—Kleider machen Leute; Schiller,—Maria Stuart; Heine,—Die Harzreise; Schurz,—Lebenserinnerungen. A review of elementary grammar, with paraphrases and prose composition. A considerable part of the class exercises are conducted in German. Bierwirth's Elements of German. Pope's Writing and Speaking German. *Mon., Wed., Fri., at 12.* 11 F. H. ASSOCIATE PROFESSOR CURTS. (V.)

Course II. B is elective for those who have completed the entrance requirements in elementary German.

*III. GERMAN DAILY LIFE AND INSTITUTIONS. The aim of this course is to train the student in familiar and colloquial German in speech and writing, at the same time introducing him to some of the more familiar German public and private institutions. Practice is based in part on Evans and Merhaut's Charakterbild von Deutschland and Leopold's Im deutschen Reiche, with the constant use of Perthes's Taschenatlas vom deutschen Reich and parallel readings from the history of modern Germany. Lectures and pictures illustrating German life and institutions. All class exercises are conducted in German. *Tu., Th., at 12.* 39 F. H. PROFESSOR FIFE. (XI.)

Course III. is elective, with the permission of the instructor, for those who have taken Courses I. and II.A or II.B.

IV. THE CLASSICAL PERIOD. Lessing, Goethe, and Schiller are taken up in the order named, and a brief study is made of each, based on lectures, accompanied by parallel readings from their works. Regular written themes form a part of the course. During the present year the following are read in class: Lessing,—Minna von Barnhelm; Goethe,—Egmont, Faust I.; Schiller,—Wallenstein. *Tu., Th., Sat., at 9.* 39 F. H. PROFESSOR FIFE. (VIII.)

Course IV. is elective for those who have taken Courses I. and II.A or II.B.

V.[1] NINETEENTH CENTURY DRAMA. Rapid readings from dramatic masterpieces by Kleist, Grillparzer, Hebbel, Ludwig, Hauptmann, and Sudermann, with lectures on the development of the German drama in the nineteenth century, and written themes. *Mon., Wed., Fri., at 8 (first half-year).* 36 F. H. ASSOCIATE PROFESSOR CURTS. (I.)

[VI.[1] THE GERMAN NOVELLE. The development of this peculiarly German form of narrative literature is traced from the Romantic period through the nineteenth century. Rapid readings from E. T. A. Hoffmann, Eichendorff, Mörike, Keller, Storm, Heyse, K. F. Meyer, and Rosegger. A part of

this reading is done outside of class and is made the subject of written themes. *Three times a week (first half-year).* ASSOCIATE PROFESSOR CURTS.]

VII.[2] CONTEMPORARY GERMAN LITERATURE (from 1880 to 1910). A study of the tendencies in present-day literature, especially in the drama. Lectures and rapid readings, with written themes. *Mon., Wed., Fri., at 8 (second half-year).* 36 F. H. ASSOCIATE PROFESSOR CURTS. ( )

[VIII.[2] HISTORICAL AND CRITICAL PROSE. Rapid readings in contemporary German historians and essayists. The course is designed as a further introduction to German culture, as well as an aid to those who desire greater proficiency in reading contemporary German prose. *Three times a week (second half-year).* ASSOCIATE PROFESSOR CURTS.]

Courses V., VI., VII., and VIII., each of which is given in alternate years only, are elective for those who have taken Courses I. and II. A or II. B. Courses VI. and VIII. are omitted in 1914–15.

*IX.[1] GERMAN PROSE COMPOSITION AND ADVANCED GRAMMAR. This course begins with an intensive review of the elementary phonology and forms of the language, followed by a study of German syntax, and an introduction to historical grammar. Regular class exercises in German prose composition, supplemented by original themes. This course is intended especially for those preparing to teach German. *Mon., Wed., Fri., at 9 (first half-year).* 39 F. H. PROFESSOR FIFE. (II.)

Course IX. is elective, with the permission of the instructor, for those who have taken Courses I., II. A or II. B, and III. It alternates with Course XII.

[X.[2] HISTORY OF GERMAN LITERATURE, I. From the earliest beginnings to the end of the sixteenth century. A course of lectures, supplemented by parallel readings from an anthology and by themes. All lectures and class exercises are conducted in German. *Three times a week (second half-year).* PROFESSOR FIFE.]

XI.[2] HISTORY OF GERMAN LITERATURE, II. From the beginning of the seventeenth century to the present time. A course of lectures, supplemented by parallel readings from an anthology and by themes. All lectures and class exercises are conducted in German. *Mon., Wed., Fri., at 9 (second half-year).* 39 F. H. PROFESSOR FIFE. (II.)

Courses X. and XI., which are given in alternate years, are elective for those who have taken Courses I. and II. A or II. B, and who take, or have taken, Course III. Course X. is omitted in 1914–15.

[XII.[1] MIDDLE HIGH GERMAN. The course is a brief introduction to the early classical period, and is literary rather than linguistic in its aims. Wright's Middle High German Primer. Readings from Hartmann von Aue's Der arme Heinrich, the Nibelungenlied and Walther von der Vogelweide. *Three times a week (first half-year).* PROFESSOR FIFE.]

Course XII. is elective for those who have taken Courses I., II. A or II. B, and III., or their equivalent. It alternates with Course IX., and is omitted in 1914–15.

ROMANCE LANGUAGES.

PROFESSOR KUHNS; ASSOCIATE PROFESSOR MANN.

I. ELEMENTARY FRENCH. Fraser and Squair's French Grammar, Part I. Kuhns's French Reading for Beginners. Erckmann-Chatrian,—Madame Thérèse; Laurie,—Une Année de Collège à Paris. Part of this reading is done at sight. There is also personal drill in pronunciation. SECTION 1, *Mon., Wed., Fri., at 10.* 11 F. H. SECTION 2, *Tu., Th., Sat., at 11.* 14 F. H. ASSOCIATE PROFESSOR MANN. (III.)

Candidates for the degree of B. S. must complete the equivalent of Courses I. and II. in French, as well as I. and II. in German. Such of these courses as they have not pursued and passed in before entering college, they must take as soon as practicable after entering.

II. INTERMEDIATE FRENCH. Fraser and Squair's French Grammar, Part II. This course has for its main object the study of advanced grammar and composition, in connection

with the reading of a large amount of French. Special attention is paid to sight-reading in class, and for each half-year collateral reading is given, to be prepared by the student himself for examination. On Tuesdays Duval's Histoire de la Littérature Française is read and is supplemented by informal lectures. SECTION 1, *Tu., Th., Sat., at 8.* 14 F. H. SECTION 2, *Tu., at 8.* 14 F. H. *Wed., Fri., at 9.* 11 F. H. PROFESSOR KUHNS and ASSOCIATE PROFESSOR MANN. (VII.)

Course II. is elective for those who have taken Course I.

*III. FRENCH CONVERSATION. The object of this course is to give practice in writing, speaking, and hearing French. During the year several informal lectures on travel in Europe are given in French. These lectures are illustrated by lantern slides. *Mon., at 8.* 39 F. H. PROFESSOR KUHNS. (I.)

Course III. is elective, with the permission of the instructor, for those who take, or have taken, Course II.

*IV. FRENCH LITERATURE. French literature in the seventeenth, eighteenth, and nineteenth centuries. The masterpieces of Corneille, Racine, Molière, Boileau, La Fontaine, Rousseau, Chateaubriand, Lamartine, Alfred de Musset, Victor Hugo, Balzac, and others are read and discussed in French, but not translated. Frequent lectures are given by the instructor on the general state of literature in France in the seventeenth, eighteenth, and nineteenth centuries. At each recitation translation from English into French is made. In addition, each member of the class must make, twice during the year, a more extensive study of some one particular writer. The class exercises are largely conducted in French. *Wed., Fri., at 8.* 39 F. H. PROFESSOR KUHNS. (I.)

Course IV. is elective, with the permission of the instructor, for those who take, or have taken, Course III.

V.[1] OLD FRENCH. The work consists in the translation of Old French texts, and the study of Old French literature, with special reference to its influence on the literatures of the other nations of Western Europe. Lectures, collateral readings, and reports form part of the work. *Wed., Fri., at 10 (first half-year).* 39 F. H. PROFESSOR KUHNS. (III.)

Course V. is elective for those who have taken Courses I.–IV.

*VI.[2] FRENCH. This course is especially designed to meet the needs of those who intend to teach French. It includes the study of grammar and composition, phonetics of French pronunciation, methods of teaching, bibliography, and other appropriate topics. All class exercises are conducted in French. *Wed., Fri., at 10 (second half-year).* 39 F. H. PROFESSOR KUHNS. (III.)

Course VI. is elective, with the permission of the instructor, for those who have taken Courses I.–IV.

VII. ELEMENTARY ITALIAN. Grandgent's Italian Grammar. De Amicis, Cuore; Pellico, Le mie Prigioni; Guida degli Stati Uniti per l'Immigrante Italiano. In addition to the regular work by the class in translating modern prose, the instructor translates and interprets to the class the Inferno and the Purgatorio of Dante, a portion of each recitation being devoted to this exercise. As a preparation for this part of the work, the class is required to read Gardner's Dante (in Temple Primers). *Tu., Th., at 10.* 39 F. H. PROFESSOR KUHNS. (IX.)

Course VII. is elective for Sophomores who have taken I. French.

[VIII. ADVANCED ITALIAN. Dante, Petrarch, Tasso, Ariosto. Lectures on the history of Italian literature. *Twice a week.* PROFESSOR KUHNS.]

Course VIII. is elective for those who have taken Course VII. It is omitted in 1914–15.

IX. DANTE IN ENGLISH. The New Life and the Divine Comedy are read in English translations. The instructor interprets these books in the light of the history, science, theology, and philosophy of the Middle Ages, comparing Dante with Homer, Shakespeare, and other world-poets, and showing his influence on modern thought, art, and literature. *Th., at 8.* 39 F. H. PROFESSOR KUHNS. (VII.)

Course IX. is elective for Juniors.

X. ELEMENTARY SPANISH. Grammar, and reading of simple Spanish prose. *Tu., Th., at 12.* 36 F. H. ASSOCIATE PROFESSOR MANN. (XI.)

Course X. is elective for Sophomores who have taken I. French.

[XI. ADVANCED SPANISH. A course in Spanish literature, with especial emphasis on the chief writers. *Twice a week.* ASSOCIATE PROFESSOR MANN.]

Course XI. is elective for those who have taken Course X. It is omitted in 1914–15.

[XII. OLD PROVENÇAL. This is intended as a companion course to V. French, and is literary rather than linguistic in its aims. The work consists in the study of texts, lectures on the life and poetry of the troubadours and their influence on early European literature, collateral readings, and a brief consideration of Provençal philology. *Twice a week.* ASSOCIATE PROFESSOR MANN.]

Course XII. is elective for those who have taken either Courses I.–IV., or Courses I., II., and X. It is omitted in 1914–15.

ENGLISH LITERATURE.

PROFESSOR WINCHESTER; ASSOCIATE PROFESSOR GILLET.

I. GENERAL INTRODUCTION TO ENGLISH LITERATURE. An outline of the history of the literature, with class-room reading and discussion of representative works illustrative of different varieties and periods of English Literature. Stopford Brooke's History of English Literature is used as a text-book, with Cunliffe, Pyre, and Young's Century Readings for a Course in English Literature. SECTION 1, *Mon., Wed., Fri., at 12.* SECTION 2, *Mon., at 12; Wed., Fri., at 8.* SECTION 3, *Mon., at 12; Tu., Th., at 11.* 14 F. H. (sections in 12 F. H.). PROFESSOR WINCHESTER and ASSOCIATE PROFESSOR GILLET.

Course I. is elective for Sophomores. (V.)

[II. SIX PLAYS OF SHAKESPEARE. *Three times a week.* PROFESSOR WINCHESTER.]

[III. ENGLISH POETRY, 1789–1832. Burns, Wordsworth, Coleridge, Scott, Byron, Shelley, Keats. *Three times a week.* PROFESSOR WINCHESTER.]

IV. VICTORIAN LITERATURE. Carlyle, Ruskin, Browning, Tennyson. *Mon., Wed., Fri., at 9.* 14 F. H. PROFESSOR WINCHESTER. (II.)

V. STUDIES IN SHAKESPEARE. *Mon., Wed., Fri., at 10.* 12 F. H. ASSOCIATE PROFESSOR GILLET. (III.)

Courses II.–V. are elective for those who have taken Course I. Courses II. and III. are omitted in 1914–15.

[VI. LITERATURE OF THE LATTER HALF OF THE NINETEENTH CENTURY. Stevenson, Newman, Arnold, Rossetti, Morris, Swinburne, and Meredith. *Three times a week.* ASSOCIATE PROFESSOR GILLET.]

Course VI. is elective for those who have taken Course I. and one other course in the department, or by special permission of the instructor. It is omitted in 1914–15.

[*VII. LITERATURE OF THE PERIOD OF QUEEN ANNE. Defoe, Steele, Addison, Swift, Bolingbroke, Pope. *Twice a week.* PROFESSOR WINCHESTER.]

*VIII. ESSAYISTS AND REVIEWERS OF THE EARLY NINETEENTH CENTURY. Jeffrey, Hazlitt, De Quincey, Lamb, Wilson, Hunt. *Mon., Wed., at 11.* 23 F. H. PROFESSOR WINCHESTER. (IV.)

[*IX. NEW ENGLAND LITERATURE, 1835–1885. Emerson, Longfellow, Lowell, Hawthorne, Whittier, Holmes. *Twice a week.* PROFESSOR WINCHESTER.]

Courses VII.–IX. are elective, with the permission of the instructor, for those who have taken Course I., either Course II. or Course III., and Course X. Courses VII. and IX. are omitted in 1914–15.

X. ELEMENTS OF LITERARY CRITICISM. Discussion of the essential elements and the various forms of literature, with practical exercises in the application of critical principles. Winchester's Principles of Literary Criticism is used as a textbook. *Fri., at 11.* 14 F. H. PROFESSOR WINCHESTER. (IV.)

Course X. is elective for those who have taken Course I.

A course in Public Speaking, elective for Seniors, is given in 1914–15 under the direction of Professor Winchester and Mr. Wetzel. (See page 69.)

ENGLISH LANGUAGE.

PROFESSOR MEAD; ASSOCIATE PROFESSOR CONLEY.

I. ENGLISH COMPOSITION. A. Text-books: Young's Freshman English and Woolley's Handbook of Composition. Each member of the class is required to write numerous themes, making practical application of various rhetorical principles. These themes are criticised by the instructor and discussed with the pupil at hours specially appointed.

B. Considerable collateral reading is assigned and furnishes models of the various types of writing. SECTION 1, *Wed., Fri., at 8.* 29 F. H. SECTION 2, *Tu., Th., at 10.* 29 F. H. SECTION 3, *Tu., Th., at 11.* 28 F. H. SECTION 4, *Wed., Fri., at 9.* 29 F. H. ASSOCIATE PROFESSOR CONLEY. (IX.)

Course I. is required of Freshmen. It counts as *three hours* a week for the year.

II. ENGLISH COMPOSITION. Sophomores are required to write six essays during the year on subjects approved by the instructor. All the written work receives the personal attention of the instructor, and appointments for individual criticism are made for each member of the class. All essays are required to conform in details to the precepts laid down in Woolley's Handbook of Composition. PROFESSOR MEAD.

Course II. is required of Sophomores who have passed in I. English Language; it is not elective for those who have not passed in that course. The essays are rated as the equivalent of one hour's work per week for the year; this hour is included in the minimum quota (15) prescribed for the year.

III. ADVANCED ENGLISH COMPOSITION. A study of various types of composition, with constant practice in theme-writing. The written work is criticised in the class-room, and also at hours appointed by the instructor for personal conference. Wednesday at 3 is reserved for criticism. All papers notably deficient in structure or style are required to be rewritten. *Mon., at 3 (counting as two hours).* 29 F. H. PROFESSOR MEAD. (VI.)

Course III. is elective for Juniors.

IV. OLD ENGLISH (Anglo-Saxon). This course is fundamental to the study of the English language and Early English literature. The principal reading at the outset is in the Gospel of St. John. The grammar is drawn from Bright's Anglo-Saxon Reader, with copious illustrations and explanations based upon the texts read. In the second half-year the reading is mainly in Old English poetry and in prose illustrating important periods of Old English history. Informal lectures, with a reading of Skeat's Primer of English Etymology, explain the relations of the Old English language to modern English. The main features of Old English civilization are discussed in lectures illustrated by lantern slides. *Wed., Fri., at 12.* 29 F. H. PROFESSOR MEAD. (V.)

Course IV. is elective for Juniors, and, with the permission of the instructor, for Sophomores.

[V. THE AGE OF CHAUCER. A study of fourteenth century literary and social life as reflected in Chaucer's Canterbury Tales, Piers the Plowman, and the verse romances. Lectures discussing typical aspects of social, religious, industrial, and court life, with assigned readings, and class discussions. *Twice a week.* PROFESSOR MEAD.]

Course V. is elective for Juniors. It is omitted in 1914–15.

VI. HISTORY OF THE ENGLISH LANGUAGE. The aim of this course is to show in lectures and class discussions how English life and culture are illustrated by changes in the meaning of words since the Norman Conquest. Special attention is given to the formation of a working English vocabulary. As far as possible the work is brought into connection with the study of literature. The collateral work involves the use of various books of reference, and in particular of Krapp's Modern English, Trench's English Past and Present, and Skeat's Concise Etymological Dictionary. *Tu., Th., at 11.* 29 F. H. PROFESSOR MEAD. (X.)

Course VI. is elective for Juniors.

VII. ARTHURIAN ROMANCES. The sources and history of the Arthurian Romances. Class readings in some of the better known forms of Arthurian story, such as Tennyson's Idylls of the King, Swinburne's Tale of Balen, and their

sources, and lectures on the older literature that furnished material to Tennyson and other modern poets. The social conditions out of which the romances grew receive special attention. *Tu., Th., at 12.* 29 F. H. PROFESSOR MEAD. (XI.)

Course VII. is elective for Juniors.

[VIII. ENGLISH FICTION. The historical development of the novel, with a brief introductory study of the theory of narrative composition. Perry,—A Study of Prose Fiction; Cross,—Development of the English Novel. Lectures, assigned readings, class papers, and discussions. PROFESSOR MEAD.]

Course VIII. is elective for Juniors. It is omitted in 1914-15.

PUBLIC SPEAKING.

MR. WETZEL.

PUBLIC SPEAKING. Instruction in the course in public speaking is given in three sections, one for each of the three upper classes. The courses are so arranged as to give the student a systematic and progressive course of training in the art of oral expression and delivery. Special training is provided for those who enter the various contests in public speaking.

A. SOPHOMORES. Special attention is given to vocal training, articulation, and pronunciation. This course includes systematic practice in oral expression and delivery, with special reference to the principles of gesture and to the fundamental characteristics of expression, viz.: pause, touch, change of pitch, inflection, movement, and tone-color. *Sat., at 11.* 12 F. H.

B. JUNIORS. Argumentation and Debate. Lectures on the principles of debate, the laws of argumentation, and the art of debate. Study of selected models. Regular debates before the class on leading questions, for criticism on arrangement and presentation of arguments. *Sat., at 10.* 11 F. H.

Course B is elective for those who have shown efficiency in Course A, or who have been on university debating teams.

C. SENIORS. A course in the composition and delivery of the different forms of public address. The student is required to deliver one original speech before the class each month. These are criticised by Professor Winchester before being delivered. *Sat., at 9.* 11 F. H.

These courses meet once a week for twenty weeks. Courses A and B count half an hour, Course C one hour, for the year.

HISTORY.

PROFESSOR DUTCHER; MR. WRISTON.

I. ENGLISH HISTORY. The History of England from the earliest times to the present day. Cross's History of England and Greater Britain is used as the text-book, and there is required, in addition, the reading of Cheyney's Introduction to the Industrial and Social History of England, Masterman's History of the British Constitution, and a few selections from Adams and Stephens's Select Documents of English Constitutional History. Lectures and recitations. *Mon., Wed., Fri., at 8.* 15 F. H. PROFESSOR DUTCHER. (I.)

Course I. is elective for Freshmen who have credit for one unit in history on admission. This course is the only one in the second required group of studies (see p. 105) open to Freshmen. Owing to its elementary character this course should be elected not later than the Sophomore year. Course I., or its equivalent, is prerequisite to the advanced courses in history, except Course IX.

Students electing history as their major study must take Course I. not later than the Sophomore year, and must complete the twelve hours required for a major in this department by taking either three courses in American history, or three courses in European history.

N. B. For Courses II., III., IV., V., VI., and X., ability to read at least one modern language besides English is almost indispensable.

II. HISTORY OF THE EXPANSION OF EUROPE. First semester: Portuguese, Spanish, French, Dutch, and English

exploration, trade, and colonization in America, Africa, and Asia from the time of Henry the Navigator to the middle of the eighteenth century, with special attention to the administrative systems, the regulation of trade and industry, the treatment of weaker races, the activities of Christian missionaries, and similar problems. Second semester: a similar study of the period since the middle of the eighteenth century, with special reference to the English in India, Canada, Australia, and South Africa, to the Dutch in the East Indies, to the liberation of South America, and to the partition of Africa. Lectures, recitations, and essays. *Mon., Wed., Fri., at 10.* 15 F. H. PROFESSOR DUTCHER. (III.)

Course II. is elective for Sophomores who have attained a grade of three in Course I., and for Juniors and Seniors who have taken any course in history. It will be omitted in 1915–16.

[III. ANCIENT HISTORY. First semester: after a brief survey of the earliest times, the history of Greece from the beginning of the Persian wars, and of Rome from the beginning of the Punic wars, will be carried to 133 B. C. Second semester: the history of the Roman republic after 133 B. C., of the Roman empire, and of the so-called Dark Ages to the death of Charles the Great, 814 A. D., with special attention to the rise of Christianity and of Mohammedanism. Botsford's History of the Ancient World, supplemented by other books on special periods. Lectures, recitations, and essays. *Three times a week.* PROFESSOR DUTCHER.]

Course III. is elective for Sophomores who have attained a grade of three in Course I., and for Juniors and Seniors who have taken any course in history or who are taking their major in Greek or Latin. By special permission of the instructor, either semester may be elected separately, though it is strongly advised that the course be taken as a whole.

IV. MEDIAEVAL HISTORY. First semester: from the death of Charles the Great, 814 A. D., to the close of the thirteenth century, with the Empire, the Papacy, and France as the central factors, and with special attention to feudalism, the crusades, and the rise of the towns. Second semester: the development of culture and of the vernacular literatures, the

rise of the universities, the Renaissance, the age of discovery, the Protestant Reformation, the Counter-Reformation, and the wars of religion, to the treaties of Westphalia, covering approximately from 1300 to 1660. Emerton's Mediaeval Europe and Hassall's Periods of European History, volumes 1–5. Lectures, recitations, and essays. *Tu., Th., Sat., at 10.* 15 F. H. MR. WRISTON. (IX.)

Course IV. is elective for Sophomores who have attained a grade of three in Course I., and for Juniors and Seniors who have taken any course in history. Courses III. and IV. are given in alternate years, Course III. being omitted in 1914–15.

V. MODERN EUROPEAN HISTORY. First semester: the age of Louis XIV., the rise of Russia and of Prussia, and the enlightened despotism, the French Revolution, and the Napoleonic era. Second semester: the Holy Alliance, the revolutionary movements, the development of constitutional government, the unification of Germany and of Italy, with special attention to the more important events and movements since 1870. Stephens's Syllabus of Modern European History, Robinson and Beard's Readings in Modern European History, Hazen's Europe since 1815, and other books on special periods. Lectures, recitations, and essays. *Mon., Wed., Fri., at 12.* 15 F. H. PROFESSOR DUTCHER. (V.)

Course V. is elective for Sophomores who have attained a grade of three in Course I., and for Juniors and Seniors who have taken any course in history, or who are taking their major in German or romance languages. In 1914–15 the second semester may be elected separately with the permission of the instructor.

*VI. HISTORY SEMINARY. During the year 1914-15, special topics in European history during the Napoleonic period are studied. This course is intended to afford training in historical method. Topics for individual research and report are regularly assigned and the work of the student is subject to the constant supervision and criticism of the instructors. At the close of the year, each student is required, as a test of his ability to do historical research and to present his results in a correct and lucid manner, to prepare an essay or

thesis of considerable length upon some topic studied in the course. *Wed., 7–10 p. m., counting as three hours for the year.* 10 F. H. PROFESSOR DUTCHER and MR. WRISTON.

Course VI. is elective, with the permission of the instructors, for Seniors who have shown, in earlier courses in the department, ability to do advanced work in history. For the year 1914–15, permission is given only to those who have taken or are taking Course V., and who are able to read French or some other modern language.

[VII. UNITED STATES HISTORY, 1750–1829. First semester: the French and Indian war, the English colonial system and the struggle precipitated by the attempts of George III. and his ministers to remodel it, the war for independence, the confederation, the framing and ratification of the state and federal constitutions. Second semester: the first six presidents, their personalities, problems, and policies, the problem of relations with Europe, the war of 1812, the Monroe doctrine, national expansion, growth of democracy. The important constitutional, political, economic, and social developments are emphasized. Hart's Formation of the Union may be used as a syllabus. Lectures, recitations, and essays. *Three times a week.* MR. WRISTON.]

Course VII. is elective for those who have taken any course in history or economics. It is omitted in 1914–15.

VIII. UNITED STATES HISTORY, 1829–1913. First semester: the personalities, policies, and achievements of the more important presidents and political leaders, and the important constitutional, political, economic, and social developments to the outbreak of the civil war. Second semester: the civil war, reconstruction, the new economic and social problems, the United States as a colonial and world power. Bassett's Short History of the United States, Stanwood's History of the Presidency, and Dewey's Financial History of the United States. Lectures, recitations, and essays. *Tu., Th., Sat., at 8.* 15 F. H. MR. WRISTON. (VII.)

Course VIII. is elective for those who have taken any course in history or economics.

IX. AMERICAN GOVERNMENT. First semester: a survey of the development of constitutional government in America, followed by a study of the origin, development, present condition, and methods of operation of the several organs of the federal government; the rise, organization, and methods of political parties. Second semester: the growth of the state constitutions, and the organization and operation of the state governments; local government and municipal administration; and the rights and obligations of citizens. In the treatment of the various topics, the significance of the historical development is constantly emphasized, comparisons with other countries are made, and discussion is turned from time to time to the fundamental problems of systematic political theory. Beard's American Government and Politics, Ray's Introduction to Political Parties and Practical Politics, Munro's Government of American Cities, and collateral readings. Discussions and reports. *Mon., Wed., Fri., at 8.* 14 F. H. MR. WRISTON. (I.)

Course IX. is elective for Sophomores who have taken Course I., and for Juniors and Seniors. It is intended primarily for those who plan to take only a single course, other than Course I., in the department. Only one hour credit will be given for this course, if taken in addition to Course VII. or Course VIII. This course alternates with Course X.

[X. COMPARATIVE GOVERNMENT. First semester: a systematic study of the constitutions, of the national, local, and municipal systems of administration, of political parties, and of the functions of government in Great Britain, France, and Germany. Second semester: a survey of the other European countries, of the Latin-American countries, of self-governing dependencies, of India, China, and Japan, with some consideration of colonial administration. The aim of the course is to present the development of constitutional government outside of the United States, and to study the internal problems of the more important countries, with constant attention to American parallels and to the problems of systematic political theory. The course is intended to give a clearer knowledge of the contemporary conditions of other countries, and to develop broader political views. Ogg's Governments of Europe,

Munro's Government of European Cities, and collateral readings. Discussions and reports. *Three times a week.* MR. WRISTON.]

Course X. is elective for Sophomores who have attained a grade of three in Course I., and for Juniors and Seniors who have taken any course in history. Courses IX. and X. are given in alternate years, Course X. being omitted in 1914–15. Courses IX. and X. are not open to those who took Course IX. in 1912–13 or 1913–14.

ECONOMICS AND SOCIAL SCIENCE.

PROFESSOR TUTTLE; MR. RICH.

I. PRINCIPLES OF ECONOMICS. This course gives the student a scientific analysis of modern industrial society, and acquaints him with the principles of political economy and correct methods of analysis. The aim is to give, first, discipline in habits of scientific thinking in regard to all social phenomena, and, second, perspective and a basis of sound knowledge for further and more intensive study in the general field of economics and social science, and for an intelligent exercise of the duties of citizenship. The means of instruction in this and in the other courses in economics are text-books, lectures, discussions, reports, collateral reading, and frequent written tests. *Tu., Th., Sat., at 9.* 15 F. H. PROFESSOR TUTTLE. (VIII.)

Course I. is elective for Sophomores.

*II. ADVANCED ECONOMICS. This course begins with a survey of the development of economic thought as related to economic development. The historical study is followed by critical studies in modern economic theory. Particular attention is given to theories of value and distribution. Earlier theories of distribution are examined in the light of contemporary economic conditions. Socialism and Henry George's Progress and Poverty are studied in relation to earlier and current theories of value and distribution. The conditions of economic progress in the light of economic analysis also

receive attention. *Tu.*, *Th.*, *Sat.*, *at 8.* 12 F. H. PROFESSOR TUTTLE. (VII.)

Course II. is elective, with the permission of the instructor, for those who have taken Course I.

III. CORPORATIONS, TRUSTS, AND MONOPOLIES. The historical development and analysis of the different forms of industrial organization, including the single proprietorship, partnership, joint-stock company, and corporation, and the later developments, such as the pool, trust, holding company, consolidated corporation, and "community of interest." Critical study of the economic and social effects of great combinations, illustrated by documents. The elements of corporation finance, with especial reference to organization and management. The evils of corporate organization, such as fraudulent promotion, over-capitalization, and manipulation. Public policy toward corporations. Conditions insuring progress in method and organization. The evil effects of monopoly, and the problems of control. Legislation in the United States and other countries, and important legal decisions. Public-service corporations; public utilities commissions. The principles of transportation and railroad problems, economic, social and legal; the Interstate Commerce Commission. *Tu.*, *Th.*, *Sat.*, *at 11.* 15 F. H. PROFESSOR TUTTLE. (X.)

Course III. is elective for those who have taken Course I. It is given in alternate years with Course IV., and will be omitted in 1915–16.

[IV. MONEY AND BANKING. The theory of money, and the principles of monetary circulation. The origin and development of money; coinage; monometallism and bimetallism. The monetary history of the United States, England, France, and Germany. The production of the precious metals, and the silver issue. International bimetallism. The evolution of the gold standard. The nature and monetary functions of credit instruments. The theory and history of government issues of paper currency, and especially the "greenback" experiment in the United States. The theory and history of banking, and the evolution of bank-note currency and deposit currency. The development of the banking systems of France, England,

Germany, and the United States. Monetary and banking problems of the United States. *Three times a week.* PROFESSOR TUTTLE.]

Course IV. is elective for those who have taken Course I. It is given in alternate years with Course III., and is omitted in 1914–15.

V. PUBLIC FINANCE. This course covers, in a general manner, the entire field of public finance, but pays special attention to taxation. Public expenditures, revenues from various sources, public debts, and budgets will be studied with reference both to theory and to the practice of various nations. *Tu., Th., Sat., at 9.* 12 F. H. MR. RICH. (VIII.)

Course V. is elective for those who have taken Course I. It is given in alternate years with Course VI., and will be omitted in 1915–16.

[*VI. INTERNATIONAL TRADE AND TARIFF HISTORY. After a consideration of the theory of international trade, the tariff policy of various European nations and of the United States is studied. *Three times a week.* MR. RICH.]

Course VI. is elective, with the permission of the instructor, for those who have taken Course I. It is given in alternate years with Course V., and is omitted in 1914–15.

VII. LABOR PROBLEMS. The course begins with a brief survey of the Industrial Revolution and the rise of the factory system. The trade union movement is then studied, and various present-day problems considered in their relation to unionism. The work is carried on by means of lectures, discussions in class room, and frequent written tests on assigned reading. At least one thesis is required. *Mon., Wed., Fri., at 12.* Room B, F. H. MR. RICH. (V.)

Course VII. is elective for those who have taken Course I.

VIII. GENERAL SOCIOLOGY. An analytical study of the factors and forces of social life, followed by the study of selected problems. Lectures, discussions, and frequent written tests on assigned reading. *Mon., Wed., Fri., at 11.* 15 F. H. MR. RICH. (IV.)

Course VIII. is elective for those who have taken Course I., or are taking it in their Junior or Senior year.

*IX. ECONOMICS SEMINARY. Each member of the seminary is assigned a subject for investigation in the field of economics or social science. The work is done under the direction of the instructors. Each member is expected to report from week to week on the progress made and finally to prepare a thesis exhibiting the results of the year's research. *Tu., 7–10 p. m., counting as three hours for the year.* 10 F. H. PROFESSOR TUTTLE and MR. RICH.

Course IX. is elective, with the permission of the instructors, for those Seniors who have shown, in earlier courses in the department, the ability to undertake individual research.

It will be noted that in each of the college classes certain courses cannot be taken at all except by such students as take Course I. in the Sophomore year. Hence a student in an odd-numbered class who wishes to take Course III. or Course V. must qualify himself to take it in his Junior year by taking Course I. in his Sophomore year; and similarly a student in an even-numbered class can take Course IV. or Course VI. only by taking Course I. in his Sophomore year.

PHILOSOPHY.

PROFESSOR ARMSTRONG.

I. LOGIC. Jevons-Hill's Elements of Logic; lectures, and recitations, illustrated by numerous examples in logical praxis. An elementary course in the forms of reasoned thinking, both deductive and inductive. SECTION 1, *Mon., Wed., Fri., at 11 (first half-year).* SECTION 2, *Mon., Wed., Fri., at 11 (second half-year)*, alternating with the sections in I. Psychology. 28 F. H. (IV.)

Course I. is elective for Sophomores.

II.[1] ANCIENT AND MEDIAEVAL PHILOSOPHY. Zeller's Outlines of Greek Philosophy, with references to other authorities. Falckenberg's History of Modern Philosophy. Lectures, recitations, and discussions on the historical development of

philosophy to the beginning of modern times. *Mon., Wed., Fri., at 10 (first half-year).* 28 F. H. (III.)

Course II. is elective for those who have taken any one of the following courses: I. Philosophy, I. Psychology, I. Ethics. Juniors who elect it must have received grade three or over in one of these courses.

III.[2] MODERN PHILOSOPHY TO 1840. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other standard authorities. The progress of modern philosophy is traced to the opening of the present age. *Mon., Wed., Fri., at 10 (second half-year).* 28 F. H. (III.)

Course III. is elective, under ordinary circumstances, for those who have taken Course II.

III. A. READINGS IN PHILOSOPHY. Readings in the philosophical classics, ancient and modern, and in collateral authorities. Those who elect this course are required to present abstracts and theses based on the selections read.

Course III. A is supplementary to Courses II. and III., and elective only in connection with them. It counts as *one hour a week* for the year.

*IV. PHILOSOPHY OF THE NINETEENTH CENTURY. Lectures, readings, and discussions on philosophical thought since the disruption of the Hegelian school. In the second half of the year the work is conducted by the seminary method. Special attention is given to contemporary English and American philosophy, and to the most recent types of opinion, as pragmatism and the systems of Eucken and Bergson. *Tu., 7:30–9 p. m., counting as two hours.* 24 F. H.

Course IV. is elective, with the permission of the instructor, for those who have taken Courses II. and III., or their equivalent.

PSYCHOLOGY.

PROFESSOR DODGE.

I. ELEMENTARY PSYCHOLOGY. Lectures and recitations based on Pillsbury's Essentials of Psychology, and references to other standard authorities. SECTION 1, *Mon., Wed., Fri.,*

at 11 (first half-year); SECTION 2, *Mon., Wed., Fri., at 11 (second half-year)*, alternating with the sections in I. Philosophy. 39 F. H. (IV.)

Course I. is elective for Sophomores. It may not be elected alone, but must be elected with I. Philosophy. It is preparatory to all later work in the department, and it should therefore be taken in Sophomore year by all students who plan to elect their major studies in psychology.

II. PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY. Lectures and class demonstrations, with collateral reading. The course aims at a dynamic psychology. It deals with the nervous conditions of consciousness with special reference to mental work, fatigue, and efficiency, the origin and integration of knowledge and conduct. Experimental methods of investigation are discussed and illustrated by class demonstrations. *Mon., Wed., Fri., at 8.* 22 F. H. (I.)

Course II. is elective for those who have taken Course I., or for those who are taking it in their Junior or Senior year.

III. NORMAL AND ABNORMAL EMOTIONS AND WILL. Lectures and reports. A systematic general account of the emotions, the will, and human personality. A more detailed account of special phenomena, including anger, fear, the tender emotions, sympathy, the aesthetic emotions, the religious emotions, emotional prejudice, the motor value of ideas, suggestion and hypnotism, compulsive ideas, etc. *Tu., Th., at 10.* 28 F. H. (IX.)

Course III. is elective for those who have taken Course I.

[IV. EDUCATIONAL PSYCHOLOGY. Lectures, reports, and required readings, constituting a systematic discussion of the laws of mental development and the psychological basis of educational theory and practice. In conjunction with Course I., this course is planned to meet the requirements in educational psychology of those states and cities which demand the professional training of teachers, but it is also intended to serve the needs of those whose interest in the psychological problems of education is non-professional. *Twice a week.*]

Course IV. is elective for those who have taken Course I. It is omitted in 1914–15.

*V. LABORATORY COURSE IN PSYCHOLOGY. Experimental study of special problems. *Th.*, *2–4*. 22 F. H.

Course V. is elective, with the permission of the instructor, for those who have taken Course II.

ETHICS AND THE PHILOSOPHY OF RELIGION.

PROFESSOR RICE; ASSOCIATE PROFESSOR DRAKE.

I[1]. INTRODUCTION TO ETHICS. A few lectures on the origin and evolution of morality are followed by a discussion of the fundamental problems of the theory of morality, and of concrete moral problems, personal and social. Readings in the best modern authors. This course aims, first, to furnish a sound scholarly basis for moral judgments, and then to interest the student in the great moral problems and movements of the day. *Tu., Th., Sat., at 9 (first half-year).* 28 F. H. ASSOCIATE PROFESSOR DRAKE. (VIII.)

Course I. is elective for Juniors.

II.[2] INTRODUCTION TO THE STUDY OF RELIGION. A few lectures on the origin of religion and the great historic religions are followed by a discussion of the debated problems of religion and a constructive presentation of the truths of Christianity. Readings in the best modern authors. This course aims, first, to quicken the student's interest in religion, and then to aid him to face fearlessly the questionings of modern times from the point of view of sound scholarship. *Tu., Th., Sat., at 9 (second half-year).* 28 F. H. ASSOCIATE PROFESSOR DRAKE. (VIII.)

Course II. is elective for those who have taken Course I., and occasionally for others by permission of the instructor.

III.[1] THE ENGLISH BIBLE. A study, historical and interpretative, of the Old Testament, with special emphasis upon the teaching of the great Hebrew prophets. Warschauer's What is the Bible, ch. I.–VI., and Cornill's Prophets of Israel, are read in connection with selected Bible passages. *Tu., Th., Sat., at 10 (first half-year).* 24 F. H. ASSOCIATE PROFESSOR DRAKE. (IX.)

Course III. is elective for Juniors.

IV.[2] THE ENGLISH BIBLE. A study, historical and interpretative, of the New Testament, with special emphasis upon the life and teachings of Christ and of Paul. Warschauer's What is the Bible, ch. VII.–XII., and Neumann's Jesus, are used in connection with selected Bible passages. *Tu., Th., Sat., at 10 (second half-year).* 24 F. H. ASSOCIATE PROFESSOR DRAKE. (IX.)

Course IV. is elective for those who have taken Course III.

[V.[2] RELATIONS OF SCIENCE AND RELIGION. Lectures and recitations on the history of important advances in scientific thought and their bearing upon theistic and Christian belief. The heliocentric astronomy, the antiquity of the earth and of man, the correlation of physical and vital forces, and the theory of evolution are among the topics discussed. Rice's Christian Faith in an Age of Science is used as a text-book. *Twice a week (second half-year).* PROFESSOR RICE.]

Course V. is elective for Juniors. It is omitted in 1914–15, but will probably be given in 1915–16.

VI. ETHICAL SEMINARY. A discussion of fundamental moral and religious problems on the basis of readings in the great ethical teachers, ancient and modern. Selected passages are read from Plato, Aristotle, Marcus Aurelius, Goethe, Mazzini, Carlyle, Mill, Arnold, Ruskin, Emerson, and Tolstoi, and their respective attitudes toward similar problems are contrasted. The conceptions of other thinkers are also briefly presented in their proper connection. *Tu., 2 to 3:45 p. m. (counting as two hours for the year).* 24 F. H. ASSOCIATE PROFESSOR DRAKE. (XII.)

Course VI. is elective for those who have taken Courses I. and II., for Seniors who are taking them, and occasionally, by special permission, for others.

MATHEMATICS.

PROFESSORS HOWLAND AND CAMP; DR. LAMOND.

I.[1] TRIGONOMETRY. SECTION 1, *Mon., Wed., Fri., at 8;* SECTION 2, *Mon., Wed., Fri., at 9;* SECTION 3, *Tu., Th., Sat.,*

at 8; SECTION 4, *Tu., Th., Sat., at 9 (first half-year).* 25 and 26 O. H. PROFESSORS HOWLAND and CAMP, and DR. LAMOND. (I.)

Course I. is elective for Freshmen.

II.[1] COLLEGE ALGEBRA. Permutations and combinations, limited to simple cases. Complex numbers, with graphical representation of sums and differences. Determinants, chiefly of the second, third, and fourth orders, including the use of minors and the solution of linear equations. Numerical equations of higher degree, and so much of the theory of equations, with graphical methods, as is necessary for their treatment, including Descartes' rule of signs and Horner's method. *Mon., Wed., Fri., at 9 (first half-year).* 25 O. H. PROFESSOR CAMP. (II.)

Course II. is elective for Freshmen.

III.[2] ANALYTIC GEOMETRY. SECTION 1, *Mon., Wed., Fri., at 9;* SECTION 2, *Tu., Th., Sat., at 9 (second half-year).* 25 and 26 O. H. PROFESSOR HOWLAND and DR. LAMOND. (II.)

Course III. is elective for those who have taken Course I.

IV.[2] SOLID GEOMETRY. SECTION 1, *Mon., Wed., Fri., at 8;* SECTION 2, *Mon., Wed., Fri., at 9;* SECTION 3, *Tu., Th., Sat., at 9 (second half-year).* 25 and 26 O. H. PROFESSORS HOWLAND and CAMP, and DR. LAMOND. (I.)

Course IV. is elective for Freshmen.

In fulfilment of the requirements for the degree of B. S., a candidate must present on admission, or take in his Freshman year, trigonometry, and one of the following subjects: college algebra, analytic geometry, solid geometry.

Students who intend to do further work in the department are advised to take Courses I. and III. in their Freshman year, and Course VII. in their Sophomore year.

V. SURVEYING. The theory and use of chain, tape, compass, level, transit, and sextant; surveying methods, problems, and computations, together with practical field and office work; spherical trigonometry. *Tu., Th., at 8, and two hours of field-work, four hours counting as three.* 26 O. H. DR. LAMOND. (VII.)

Course V. is elective for those who have taken Course I.

VI. DESCRIPTIVE GEOMETRY AND MECHANICAL DRAWING. Lectures and recitations, based on text-books, together with practice in the draughting room. Problems in descriptive geometry are taken up relating to points, lines, planes, and surfaces, their intersections and developments, etc. The course includes also the care and use of drawing instruments, mechanical drawing from objects, sketching, lettering, dimensioning, etc. *Mon., Wed., Fri., 10–12, counting as three hours for the year.* 40 S. L. DR. LAMOND. (III.)

Course VI. is elective for those who have taken Course IV.

VII. DIFFERENTIAL AND INTEGRAL CALCULUS. Elementary course. *Mon., Wed., Fri., at 8.* 25 O. H. PROFESSOR HOWLAND. (I.)

Course VII. is elective for those who have taken Course III.

VIII.[1] ANALYTIC GEOMETRY. Advanced course, beginning with a review of Course III., and extending into the subject of solid analytic geometry. *Mon., Wed., Fri., at 11 (first half-year).* 26 O. H. PROFESSOR HOWLAND. (IV.)

Course VIII. is elective for those who have taken Course III.

[IX.[1] THEORY OF ALGEBRAIC PLANE CURVES. An introductory course, including trilinear coördinates, polars, singular points, Plücher's equations, asymptotes, approximation curves, and linear branches. *Three times a week (first half-year).* PROFESSOR HOWLAND.]

Course IX. is elective for those who have taken Courses VII. and VIII. It is omitted in 1914–15.

X.[1] HIGHER ALGEBRA. An introduction to some of the important branches of higher algebra: properties of polynomials, systems of linear equations, linear transformations, invariants, quadratic forms, etc. *Mon., Wed., Fri., at 10 (first-half year).* 26 O. H. PROFESSOR HOWLAND. (III.)

Course X. is elective for those who have taken Courses II., VII., and VIII.

[XI.[2] INFINITE SERIES. Convergence, uniform convergence, differentiation and integration of series of functions of one variable; the use of series in computing; an introduction to the subject of Fourier's series, with applications to simple

problems in the flow of heat and electricity. *Three times a week.* PROFESSOR CAMP.]

Course XI. is elective for those who have taken Course VII. It is omitted in 1914–15.

*XII.[2] REDUCTION OF OBSERVATIONS. This course deals with the general problem of obtaining from a set of observations the best possible results, and measures of their reliability. It includes the following topics: interpolation by means of finite differences, probable error, and the method of least squares, with applications to simple problems in physics, astronomy, and statistics. *Mon., Wed., Fri., at 11 (second half-year).* 26 O. H. PROFESSOR CAMP. (IV.)

Course XII. is elective, with the permission of the instructor, for those who have done some advanced work in the department.

XIII. MECHANICS. Statics of rigid bodies and of other systems of particles, including as much of the theory of strings as is necessary to the study of cables hanging freely or supporting a bridge. The motion of particles under constant and under variable forces, including the study of impulsive forces, and of elasticity, and the usual introduction to celestial mechanics. An elementary treatment of the motion of a rigid body. *Tu., Th., at 12; Sat., at 8.* 26 O. H. PROFESSOR CAMP. (XI.)

Course XIII. is elective for those who have taken Course VII.

[XIV. CALCULUS. Second course, comprising, in the first half-year, a more extended discussion of some of the subjects introduced in Course VII., and in the second half-year an introduction to the theory of differential equations, with applications to geometry, mechanics, and physics. *Three times a week.* PROFESSOR HOWLAND.]

Course XIV. is elective for those who have taken Course VII. It is omitted in 1914–15, but will probably be given in 1915–16.

ASTRONOMY.

PROFESSOR SLOCUM.

I.[1] ELEMENTARY DESCRIPTIVE ASTRONOMY. This is intended as a general culture course, and the emphasis is laid

upon the fundamental facts and the historical development of the science. *Tu., Th., Sat., at 11 (first half-year).* 25 O. H. (X.)

Course I. is elective for those who have taken Course I. in mathematics.

II.[2] ADVANCED DESCRIPTIVE ASTRONOMY. A continuation and an elaboration of Course I., with especial attention to the astrophysical aspect of the subject. *Tu., Th., Sat., at 11 (second half-year).* 25 O. H. (X.)

Course II. is elective for those who have taken Course I.

III.[1] ELEMENTARY PRACTICAL ASTRONOMY. The fundamental astronomical problems of geodesy and navigation are treated and some of the elementary methods of astrometry presented. Observations are made with transit, sextant, and equatorial, and the mathematical reductions carried out. *Three times a week (first half-year), the hours to be determined.* 25 O. H.

Course III. is elective for those who have taken Course I. in mathematics.

IV.[2] ADVANCED PRACTICAL ASTRONOMY. More advanced problems in astrometry, and an introduction to celestial mechanics. *Three times a week (second half-year), the hours to be determined.* 25 O. H.

Course IV. is elective for those who have taken Course III.

PHYSICS.

PROFESSORS CRAWFORD AND CADY.

I. ELEMENTARY PHYSICS. A general course, conducted by lectures, with experimental illustrations, following a standard text-book. A two-hour laboratory period is substituted for the regular lecture about once a fortnight, the class being divided into sections for this purpose. *Mon., Wed., Fri., at 10.* 34 S. L. PROFESSORS CRAWFORD and CADY. (III.)

Course I. is elective for those who have taken Course I. in mathematics or are taking it in the first half-year. Those who elect Course I. are advised also to elect Course I.A. Students

who have received credit in physics on admission to college, but who elect to take Course I. in class, in order to be allowed to pursue the more advanced courses in the department, will receive credit for *two* hours on their quota toward graduation.

I.A. PROBLEMS IN PHYSICS. The course is supplementary to Course I., and is devoted chiefly to the solution of problems which illustrate the principles involved in that course. *Th., at 8.* 40 S. L. PROFESSORS CRAWFORD and CADY. (VII.)

Course I.A is elective for those who have taken, or are taking, Course I., and who have taken Course I. in mathematics.

II. ELEMENTARY PRACTICAL PHYSICS. The course is parallel with Course I., and may advantageously be taken with it. It is also required as an introduction to further laboratory work. Each exercise occupies 2½ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* S. L. PROFESSORS CRAWFORD and CADY.

Course II. is elective for those who have taken, or are taking, Course I., or who have received credit in physics on admission; but, except by special permission of the instructors, only those who have completed Course I. are permitted to take three exercises per week.

N. B. Students who receive credit in physics on admission, but who do not take Course I., must give evidence by examination or otherwise of the requisite proficiency before being admitted to any of the following courses:—

[III.[1] PROPERTIES OF MATTER; SOUND. Lectures, with experimental illustrations, following Poynting and Thomson's Sound, preceded by a short course of lectures on elasticity and surface tension. About eight two-hour periods of laboratory practice are substituted for the same number of lectures. *Three times a week (first half-year).* PROFESSOR CRAWFORD.]

Course III. is elective for those who have taken Course I., and have taken, or are taking, Course VII. in mathematics. It is omitted in 1914–15.

[IV.[2] LIGHT. Text-book and lectures, with experimental illustrations, on geometrical optics and the elements of the

wave theory of light. Laboratory practice as in Course III. *Three times a week (second half-year).* PROFESSOR CRAWFORD.]

Course IV. is elective for those who have taken Course I., and who have taken, or are taking, Course VII. in mathematics. It is omitted in 1914–15.

V.[1] HEAT. A general course in the subject (omitting thermo-dynamics) following Poynting and Thomson's Heat, and including some laboratory practice. *Mon., Wed., Fri., at 12 (first half-year).* 34 S. L. PROFESSOR CRAWFORD. (V.)

Course V. is elective for those who have taken Course I.

VI.[2] THERMO-DYNAMICS. Text-book and lectures on the elements of thermo-dynamics, with special application to the steam engine, and involving a few elementary exercises in engine-testing. *Mon., Wed., Fri., at 12 (second half-year).* 34 S. L. PROFESSOR CRAWFORD. (V.)

Course VI. is elective for those who have taken Course V., and who have taken, or are taking, Course VII. in mathematics.

VII. APPLICATIONS OF ELECTRICITY AND MAGNETISM. Lectures, laboratory work, and demonstrations, based largely upon a text-book. The course is an elementary treatment of the electric and magnetic phenomena in nature; magnetic properties of iron; electrolysis and storage batteries; electric heat, light, and power; telegraphy and telephony; electric waves, Röntgen rays, and radio-activity. *Tu., Th., Sat., at 10.* 34 S. L. PROFESSOR CADY. (IX.)

Course VII. is elective for those who have taken Course I.

VIII. EXPERIMENTAL ELECTRICITY. Laboratory practice in electricity and magnetism, with occasional lectures. Opportunity is afforded for some shop-work. Each exercise occupies 2½ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* S. L. PROFESSOR CADY.

Course VIII. is elective for those who have taken Courses I. and II., and who have taken, or are taking, Course VII.

IX. DYNAMOS, MOTORS, AND TRANSFORMERS. Text-book and lectures on the elements of direct and alternating current

machinery, with laboratory tests by the class. Practice in running a steam engine and generator is included. *Tu., Th., at 2; Wed. at 5.* 34 S. L. PROFESSOR CADY.

Course IX. is elective for those who have taken Courses II. and VII. It is advisable, though not necessary, to take Course VII. in mathematics before electing this course.

[X. ADVANCED ELECTRICITY. Text-book and lectures on the elementary mathematical theory of electricity and magnetism. In the second half-year the subject of radio-telegraphy is especially considered, and the work is in part experimental. *Three times a week.* PROFESSOR CADY.]

Course X. is elective for those who have taken Course VII. in physics and Course VII. in mathematics. It is omitted in 1914–15.

XI. PRACTICAL PHYSICS. Careful measurements in mechanics, heat, sound, and light. Each exercise occupies 2½ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* S. L. PROFESSOR CRAWFORD.

Course XI. is elective for those who have taken Course II. Those electing it will be expected to take or to have taken also one or more of Courses III.–VII.

XII. ADVANCED EXPERIMENTAL ELECTRICITY. Selected problems in electricity and magnetism, particularly in alternating currents, electric oscillations, and discharge through gases. The course includes reading and lectures as well as experimental work. Each exercise occupies 2½ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* S. L. PROFESSOR CADY.

Course XII. is elective for those who have taken Course VIII. in physics and Course VII. in mathematics, and who have taken, or are taking, either Course IX. or Course X. in physics.

CHEMISTRY.

ASSOCIATE PROFESSORS CROSSLEY AND WARD.

I. ELEMENTARY CHEMISTRY. A. LECTURES. The first half-year is devoted to the non-metallic elements; the second half-year, chiefly to the more common metals. *Tu., Th., Sat., at 10.* 3 J. H.

B. LABORATORY PRACTICE. SECTION 1, *Th.*, *2–4*; SECTION 2, *Th.*, *4–6*. CHEM. LAB. ASSOCIATE PROFESSOR CROSSLEY. (IX.)

Course I. is elective for Freshmen. Students who receive credit in chemistry on admission to college may be admitted to the second half of the course and receive credit for it. The course counts as *three hours*.

II.[1] QUALITATIVE ANALYSIS. A. Lectures on the chemical problems involved in the detection of the more common bases and acids. *Sat., at 11 (first half-year).* 3 J. H. (X.)

B. Laboratory practice in basic and acid analysis. Each exercise occupies 2½ hours. Those of Monday and Friday are required. *Mon., Fri., at 2, and a third assigned period (first half-year).* CHEM. LAB. ASSOCIATE PROFESSOR WARD.

Course II. is elective for those who have taken Course I.

III.[2] ELEMENTARY QUANTITATIVE ANALYSIS. A laboratory course in gravimetric and volumetric analysis, with lectures and class discussions. Each exercise occupies 2½ hours. Those of Monday and Friday are required. *Mon., Fri., at 2, and a third assigned period (second half-year).* CHEM. LAB. ASSOCIATE PROFESSOR WARD.

Course III. is elective for those who have taken Course II.

*IV. ADVANCED QUANTITATIVE ANALYSIS. A laboratory course in the principles of quantitative analysis, as illustrated by selected gravimetric, volumetric, colorimetric, electrochemical, and gasometric methods, with lectures and class discussions. Written reports are required covering the theory involved. For those who elect this course for four periods it includes the analysis and examination of such material as sugar, milk, butter, cereals; illuminating and lubricating oils; soap, paint, asphalt; water for industrial purposes. Each exercise occupies 2½ hours. Those of Monday and Friday are required. *Mon., Fri., at 2, and one, or two, other assigned periods.* CHEM. LAB. ASSOCIATE PROFESSOR WARD.

Course IV. is elective for three periods, with the permission of the instructor, for those who have taken Course III. It is elective for four periods for those who have taken Courses III. and VI.

V. ORGANIC CHEMISTRY. Lectures and recitations upon the principles of organic chemistry. *Mon., Wed., Fri., at 11.* 3 J. H. ASSOCIATE PROFESSOR CROSSLEY. (IV.)

Course V. is elective for those who have taken Course I. Course II. should be elected, if possible, in the same year with Course V.

VI. ORGANIC CHEMISTRY. A laboratory course devoted to the study of typical reactions of organic chemistry, and to the preparation of carbon compounds. Each exercise is required, and occupies 2½ hours. Occasional lectures are given on Mondays at 2. *Mon., at 2, and two other assigned periods.* CHEM. LAB. ASSOCIATE PROFESSOR CROSSLEY.

Course VI. is elective for those who have taken Course V. With the permission of the instructor, it may be elected for two periods a week.

VII. ADVANCED ORGANIC CHEMISTRY. Lectures and laboratory. Each laboratory exercise occupies 2½ hours. Lectures on Mondays at 3. *Mon., at 3, and two, or three, other assigned periods.* CHEM. LAB. ASSOCIATE PROFESSOR CROSSLEY.

Course VII. is elective for those who have taken Course VI. It may be elected for three or four periods a week.

VIII. PHYSICAL CHEMISTRY. A course devoted to the systematic treatment of modern chemical theory, and the application of this theory to some of the more important chemical problems. The effect of the variables, heat, light, pressure, and electricity, is studied in detail. Special attention is given to the mass law and the phase rule. The third assigned period at times consists of a laboratory exercise in physico-chemical measurements, such as molecular weight determinations, heat of solution, conductivity of electrolytes, electro-motive force, etc. *Tu., Th., at 12; Sat., at 10.* 3 J. H. ASSOCIATE PROFESSOR WARD. (XI.)

Course VIII. is elective for those who have taken, or are taking, Course V.

[IX. INDUSTRIAL CHEMISTRY. Lectures and collateral reading. The purpose of the course is to give a broad, cultural

idea of the chemical processes involved in the manufacture of products of value in modern every-day life. ASSOCIATE PROFESSOR CROSSLEY.]

Course IX. is elective for those who have taken, or are taking, Course V. It is omitted in 1914–15.

*X.[2] ELECTRO-CHEMISTRY. Lectures. Theories of the conduction of the electric current by solutions, of electrolysis, and of the source of electricity in a galvanic cell. The application of these theories to processes for the preparation of compounds, to the electrothermal and electrolytic extraction and refining of metals, to electro-plating, etc. *Wed., Fri., at 12 (second half-year).* 3 J. H. ASSOCIATE PROFESSOR WARD. (V.)

Course X. is elective, with the permission of the instructor, for those who have taken Course II.

[*XI.[2] APPLIED ELECTRO-CHEMISTRY. A laboratory course devoted to the study of the phenomena of electrolysis; measurement of electrical constants; determination of current and energy efficiencies in electrolytic work; study of commercial methods of electrolytic plating and refining of metals, and the electro-chemical preparation of pigments and of organic and inorganic compounds in general. Each exercise occupies 2½ hours. *Two exercises a week, the hours to be determined (second half-year).* ASSOCIATE PROFESSOR WARD.]

Course XI. is elective, with the permission of the instructor, for those who have taken, or are taking, Courses IV. and X. in chemistry, and Course VII. in physics. It is omitted in 1914–15.

[*XII.[2] PHYSIOLOGICAL CHEMISTRY. A lecture course devoted to the study of the chemistry of foods, digestion, assimilation, metabolism, respiration, secretions, and the excretions. *Three times a week (second half-year).* ASSOCIATE PROFESSOR CROSSLEY.]

Course XII. is elective, with the permission of the instructor, for those who have taken, or are taking, Course V. It is omitted in 1914–15.

[*XIII.[2] PHYSIOLOGICAL CHEMISTRY. A laboratory course, devoted to the experimental study of the chemistry of animal tissues and organs, of foods and digestion, and of milk, urine, blood, etc. Each exercise occupies 2½ hours. *Three times a week (second half-year).* ASSOCIATE PROFESSOR CROSSLEY.]

Course XIII. is elective, with the permission of the instructor, for those who have taken Courses III. and V., and who have taken, or are taking, Course XII. It is omitted in 1914–15.

XIV.[1] THEORETICAL CHEMISTRY. Lectures upon the origin, development, and present status of the theory of the molecule and the atom; the measurement of chemical affinity and theories of solution. *Mon., Wed., at 12 (first half-year).* 1 J. H. ASSOCIATE PROFESSOR WARD. (V.)

Course XIV. is elective for those who have taken Courses III., V., and VIII.

*XV. CHEMISTRY SEMINARY. Readings in current literature, with reports and discussions upon assigned topics. *Tu., Th., at 11.* 1 J. H. ASSOCIATE PROFESSOR CROSSLEY. (X.)

Course XV. is elective, with the permission of the instructor, for those who have taken, or are taking, Courses V., VIII., and XIV.

*XVI. ORGANIC RESEARCH. Investigation of special problems in theoretical and applied organic chemistry. ASSOCIATE PROFESSOR CROSSLEY.

Course XVI. is elective, with the permission of the instructor, for graduate students.

GEOLOGY.

PROFESSOR RICE; MR. BARROWS.

I.[2] PHYSICAL GEOGRAPHY. Recitations and lectures, with Salisbury's Physiography for High Schools as a text-book. SECTION 1, *Tu., Th., at 2;* SECTION 2, *Tu., Th., at 3 (second half-year).* 8 J. H. MR. BARROWS. (XII.)

Course I. is elective for Freshmen.

II. GEOLOGY. Elementary course. A course of lectures, chiefly on dynamical and structural geology. Dana's Revised Text-book of Geology is recommended for reference. *Mon., Wed., Fri., at 10.* 8 J. H. PROFESSOR RICE. (III.)

Course II. is elective for Sophomores who have taken, or are taking, I. Chemistry, and for others with permission of the instructor. It is desirable that those who take this course should also have taken courses in physics and physical geography either in college or in the preparatory school.

III.[1] GEOLOGY. Advanced course in structural and dynamical geology. Recitations and lectures, with Chamberlin and Salisbury's College Text-book of Geology as the text-book. Special topics with references are assigned to members of the class, on which they are to give lectures. Excursions on Saturdays during the fall. The phenomena observed in an excursion are discussed at the next meeting of the class, one of the members of the class often giving a report thereon. *Three times a week (first half-year), counting as four hours a week.* PROFESSOR RICE.

Course III. is elective for those who have taken Course II.

IV.[2] GEOLOGY. Historical geology and paleontology. Recitations and lectures, with same text-book as in Course III. Excursions on Saturdays during the spring term (required only of those who take also Course III.). *Three times a week (second half-year), counting as four hours a week for those who take also Course III.* PROFESSOR RICE.

Course IV. is elective for those who have taken Course II., and who have taken, or are taking, the courses in zoölogy and botany.

V.[1] MINERALOGY. Crystallography and optical mineralogy. Lectures and practical exercises. Dana's Text-book of Mineralogy is used for reference. *Tu., Th., at 10; Sat., at 11 (first half-year).* 8 J. H. PROFESSOR RICE. (IX.)

Course V. is elective for those who have taken I., III., and IV. Mathematics, I. Physics, and I. Chemistry.

VI.[2] MINERALOGY. Determinative and descriptive mineralogy. Laboratory work in determinative mineralogy; lectures on descriptive mineralogy. Brush and Penfield's Manual

of Determinative Mineralogy, and Dana's Text-book of Mineralogy, are used for reference. *Tu., Th., Sat., at 10 (second half-year).* PROFESSOR RICE. (IX.)

Course VI. is elective for those who have taken Course V. It is very desirable that those who take this course should take, or have taken, II. Chemistry.

BIOLOGY.

PROFESSOR CONN; ASSOCIATE PROFESSOR WHITNEY.

I.[1] GENERAL BIOLOGY. An introduction to the study of botany, zoölogy, and physiology. Lectures, recitations, and laboratory work. *Mon., Fri., 2–4 (with laboratory sections, Tu., 2–4, and Wed., 11–1) first half-year, counting as one hour for the year.* 8 J. H. PROFESSOR CONN and ASSOCIATE PROFESSOR WHITNEY. (VI.)

II.[2] BOTANY. Recitations, lectures, and laboratory work. *Mon., Fri., 2–4 (with a laboratory section, Wed., 11–1) second half-year, counting as one hour for the year.* 8 J. H. PROFESSOR CONN. (VI.)

Courses I. and II. are elective for Freshmen.

III. ZOÖLOGY. A study of the types of animals, including their embryology, certain phases of comparative anatomy, habits, distribution, and economic value. *Mon., Wed., Fri., at 9.* 8 J. H. PROFESSOR CONN and ASSOCIATE PROFESSOR WHITNEY. (II.)

Course III. is elective for Sophomores.

IV. PHYSIOLOGY. The instruction is given chiefly by lectures, with daily written recitations. *Tu., Th., at 11.* 8 J. H. PROFESSOR CONN. (X.)

Course IV. is elective for Sophomores.

V. EVOLUTION. A study of evolution; lectures and recitations. The last half-year is devoted to the study of the evolution of man. *Tu., Th., at 8.* 34 S. L. PROFESSOR CONN. (VII.)

Course V. is elective for Juniors.

[VI. BACTERIOLOGY. A study of the general subject, with special reference to sanitary problems. *Twice a week.* PROFESSOR CONN.]

Course VI. is elective for Juniors. Courses V. and VI. are given in alternate years, Course VI. being omitted in 1914–15.

*VII. BIOLOGY SEMINARY. Readings and reports upon modern biological journals and literature. The work of the seminary is done wholly by the students, and involves the preparation of a thesis involving special study. *Mon., at 4.* 8 J. H. PROFESSOR CONN.

Course VII. is elective, with the permission of the instructor, for those taking Course X.

LABORATORY COURSES IN BIOLOGY.

In the following courses two and one-half laboratory hours are required to count as one hour in quota. The laboratory is regularly open every morning and afternoon, but instruction is given only on Tuesday, Wednesday, and Thursday afternoons and Tuesday, Thursday, and Saturday mornings. Lectures, which all students are required to attend, accompany the laboratory work.

VIII. INTRODUCTORY PRACTICAL COURSE. The biology of animals and plants, including the study of cells and cell structure, and followed by the dissection of invertebrates. *Five laboratory hours for the year, or seven and one-half for the first two terms for those who take Course VIII. A.* PROFESSOR CONN and ASSOCIATE PROFESSOR WHITNEY.

Course VIII. is elective for Sophomores.

VIII. A. VERTEBRATE DISSECTION. *Seven and one-half laboratory hours (third term).* ASSOCIATE PROFESSOR WHITNEY.

Course VIII. A is elective for those who have finished Course VIII.

IX. HISTOLOGY AND MICROSCOPIC ANATOMY. *Five laboratory hours for the year, or seven and one-half for the*

first two terms for those who take Course IX.A. ASSOCIATE PROFESSOR WHITNEY.

Course IX. is elective for those who have taken Course VIII.

IX. A. EMBRYOLOGY. Chiefly the study of the chick. *Seven and one-half laboratory hours (third term).* ASSOCIATE PROFESSOR WHITNEY.

Course IX. A is elective for those who have taken Course IX.

X. LABORATORY BOTANY. This is an alternative course to Course IX., for the second year in the biological laboratory. The course includes a study of the various groups of plants from bacteria to the flowering plants, and comprises structural, physiological, and histological botany. About one-third of the time is spent in field work, in which the student is required to identify trees, shrubs, and flowers, and to prepare an herbarium. *Seven and one-half laboratory hours for the year.* PROFESSOR CONN and ASSOCIATE PROFESSOR WHITNEY.

Course X. is elective for those who have taken Course VIII.

XI. PRACTICAL BACTERIOLOGY. The course is intended to give the student experience in bacteriological laboratory methods, and includes collateral readings on microbiology. *Five laboratory hours a week for the year.* PROFESSOR CONN.

Course XI. is elective for those who have taken Course IX. or Course X., and, with the permission of the instructor, for those who have taken Courses VIII. and VIII. A.

In individual cases, work of a special character may be assigned to students taking Course XI. in place of the regular course in bacteriology. This work may include some problem of research where the student is prepared for it.

PHYSICAL EDUCATION.

PROFESSORS CONN AND FAUVER.

I. PERSONAL AND SOCIAL HYGIENE. This course is designed to meet the growing demand that educated persons should have a practical knowledge of the laws of health.

Under the head of personal hygiene, it covers such topics as food, exercise, the care of the skin, the heart, the respiratory organs, the mind, a discussion of the habits of study, of sex hygiene, etc. Under the head of social hygiene, it covers problems of contagious diseases, and general topics of sanitation which concern the individual's relations to the community. Lectures, with daily written recitations. *Wed., at 3.* 34 S. L. PROFESSOR CONN. (VI.)

Course I. is required of Freshmen, and elective for other students, but only in excess of the minimum quota.

II. PHYSICAL TRAINING—ELEMENTARY COURSE. During the first term, students are required to elect work in football, baseball, track, or tennis. In the second term, from Thanksgiving to Christmas, all are required to take systematic gymnastic work. After Christmas, all who have passed a satisfactory medical examination and certain physical efficiency tests may substitute basket-ball, track, boxing, swimming, etc., for the gymnastic work. During the third term students elect work out of doors as in the first term. SECTION 1, *Mon., Wed., Fri., at 12;* SECTION 2, *Tu., Th., Sat., at 12.* PROFESSOR FAUVER.

Course II. is required of Freshmen. It does not count in the quota for graduation.

III. PHYSICAL TRAINING—ADVANCED COURSE. The work consists of advanced gymnastics, basket-ball, handball, squash, swimming, and boxing. SECTION 1, *Mon., Wed., Fri., at 3;* SECTION 2, *Tu., Th., at 3; Fri., at 4.* PROFESSOR FAUVER.

Course III. is required of Sophomores from Thanksgiving to Easter. It does not count in the quota for graduation.

IV. ANATOMY AND KINESIOLOGY. First semester: a partial course in descriptive anatomy, including a study of bones, joints, and muscles. In addition, the course deals with the principles of mechanism of bodily movements, including a consideration of the following topics: importance of posture in relation to health of body; effects of various exercises on the tissues of the body, etc. Second semester: gymnastic work and athletics. Part of the work consists in serving as

squad leaders in the regular Freshman and Sophomore classes. *Three times a week, the hours to be determined, counting as two hours a week for the year.* PROFESSOR FAUVER.

Course IV. is elective for Juniors who have taken I. Physics, I. Chemistry, I. Biology, and physiology. Those who take the course are strongly urged to take the course in bacteriology. This course is intended especially for those who intend to teach.

DAILY PROGRAM.

The order of lectures and recitations is set forth in the table given on pages 100 and 101. Roman numerals preceding the names of certain studies refer to the numbers of the courses as enumerated in the foregoing statement of courses of instruction. Arabic numerals, following the names of certain studies, indicate the sections into which the classes are divided. The figures [1] and [2] preceding the number of the course indicate respectively first and second half-year.

The hour of the meeting of the following courses will be arranged to suit the convenience of the instructors and students concerned: XIII. Latin, III., IV. Astronomy, XVI. Chemistry, III., IV. Geology, IV. Physical Education.

Laboratory courses in chemistry are held on Monday and Friday afternoons, in physics on Tuesday and Thursday afternoons, with extra periods to be determined. For biology, see page 95.

DAILY PROGRAM, 1914-1915

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8.	[1] V. Greek [2] VI. Greek [1] V. German [2] VII. German III. French I. History IX. History II. Psychology [1] I. Mathematics, 1 [2] IV. Mathematics, 1 VII. Mathematics	A Greek II.A German II. French VIII. History II. Economics [1] I. Mathematics, 3 V. Mathematics Evolution	II. Greek [1] V. Greek [2] VI. Greek [1] V. German [2] VII. German IV. French I. Eng. Literature, 2 I. Eng. Language, 1 I. History IX. History II. Psychology [1] I. Mathematics, 1 [2] IV. Mathematics, 1 VII. Mathematics	A Greek B Greek II.A German II. French, 1 Dante in English VIII. History II. Economics [1] I. Mathematics, 3 V. Mathematics I.A Physics Evolution	II. Greek [1] V. Greek [2] VI. Greek [1] V. German [2] VII. German IV. French I. Eng. Literature, 2 I. Eng. Language, 1 I. History IX. History II. Psychology [1] I. Mathematics, 1 [2] IV. Mathematics, 1 VII. Mathematics	II.A German II. French, 1 VIII. History II. Economics [1] I. Mathematics, 3 XIII. Mathematics IX. Physics
9.	I. Latin, 1 XII. Latin [1] IX. German [2] XI. German IV. Eng. Literature [1] I. Mathematics, 2 [1] II. Mathematics [2] III. Mathematics, 1 [2] IV. Mathematics, 2 Zoology	I. Latin, 2 VII. Latin IV. German I. Economics V. Economics [1] I. Ethics [2] II. Ethics [1] I. Mathematics, 4 [2] III. Mathematics, 2 [2] IV. Mathematics, 3	I. Latin, 1 XII. Latin [1] IX. German [2] XI. German II. French, 2 IV. Eng. Literature I. Eng. Language, 4 [1] I. Mathematics, 2 [1] II. Mathematics [2] III. Mathematics, 1 [2] IV. Mathematics, 2 Zoology	I. Latin, 2 IV. German I. Economics V. Economics [1] I. Ethics [2] II. Ethics [1] I. Mathematics, 4 [2] III. Mathematics, 2 [2] IV. Mathematics, 3	I. Latin, 1 XII. Latin [1] IX. German [2] XI. German II. French, 2 IV. Eng. Literature I. Eng. Language, 4 [1] I. Mathematics, 2 [1] II. Mathematics [2] III. Mathematics, 1 [2] IV. Mathematics, 2 Zoology	I. Latin, 2 IV. German Pub. Speaking (Sr.) I. Economics V. Economics [1] I. Ethics [2] II. Ethics [1] I. Mathematics, 4 [2] III. Mathematics, 2 [2] IV. Mathematics, 3
10.	A Greek I. Greek I. French, 1 V. Eng. Literature II. History [1] II. Philosophy [2] III. Philosophy VI. Mathematics [1] X. Mathematics I. Physics II. Geology	Italian I. Eng. Language, 2 IV. History III. Psychology English Bible VII. Physics I. Chemistry Mineralogy	I. Greek I. French, 1 [1] V. French [2] VI. French V. Eng. Literature II. History [1] II. Philosophy [2] III. Philosophy VI. Mathematics [1] X. Mathematics I. Physics II. Geology	Italian I. Eng. Language, 2 IV. History III. Psychology English Bible VII. Physics I. Chemistry Mineralogy	I. Greek I. French, 1 [1] V. French [2] VI. French V. Eng. Literature II. History [1] II. Philosophy [2] III. Philosophy VI. Mathematics [1] X. Mathematics I. Physics II. Geology	Pub. Speaking (Jr.) IV. History English Bible VII. Physics I. Chemistry VIII. Chemistry

DAILY PROGRAM, 1914-1915—(Continued)

Hour	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
11.	[1]X. Latin X. Greek I. German, 1 VIII. Eng. Literature VIII. Economics I. Philosophy I. Psychology VI. Mathematics [1]VIII. Mathematics [2]XII. Mathematics V. Chemistry	I. Latin, 3 VIII. Latin [1]III. Greek [2]IX. Greek I. German, 2 I. French, 2 I. Eng. Literature, 3 I. Eng. Language, 3 VI. Eng. Language III. Economics [1]I. Astronomy [2]II. Astronomy XV. Chemistry Physiology	I.A Latin [1]X. Latin X. Greek I. German, 1 VIII. Eng. Literature VIII. Economics I. Philosophy I. Psychology VI. Mathematics [1]VIII. Mathematics [2]XII. Mathematics V. Chemistry [1]I. Biology, 1 [2]II. Biology, 1	I. Latin, 3 VIII. Latin [1]III. Greek [2]IX. Greek I. German, 2 I. French, 2 I. Eng. Literature, 3 I. Eng. Language, 3 VI. Eng. Language III. Economics [1]I. Astronomy [2]II. Astronomy XV. Chemistry Physiology	VII. Latin X. Greek I. German, 1 X. Eng. Literature VIII. Economics I. Philosophy I. Psychology VI. Mathematics [1]VIII. Mathematics [2]XII. Mathematics V. Chemistry	I. Latin, 3 I. German, 2 I. French, 2 Pub. Speaking (Soph.) III. Economics [1]I. Astronomy [2]II. Astronomy [1]II. Chemistry Mineralogy
12.	[1]XV. Latin [2]XVI. Latin II. B German I. Eng. Literature V. History VII. Economics [1]V. Physics [2]VI. Physics [1]XIV. Chemistry	[1]IV. Latin [2]V. Latin III. German Spanish VII. Eng. Language XIII. Mathematics VIII. Chemistry	[1]XV. Latin [2]XVI. Latin II.B German I. Eng. Literature, 1 IV. Eng. Language V. History VII. Economics [1]V. Physics [2]VI. Physics [2]X. Chemistry [1]XIV. Chemistry [1]I. Biology, 1 [2]II. Biology, 1	[1]IV. Latin [2]V. Latin III. German Spanish VII. Eng. Language XIII. Mathematics VIII. Chemistry	[1]XV. Latin [2]XVI. Latin A Greek II.B German I. Eng. Literature, 1 IV. Eng. Language V. History VII. Economics [1]V. Physics [2]VI. Physics [2]X. Chemistry	
2.	II.B, III., IV., VI. Chemistry [1]I. Biology [2]II. Biology	[1]VIII. Greek VI. Ethics II., VIII., IX., XI., XII. Physics Phys. Geography, 1	II., VIII., XI., XII. Physics	[1]VIII. Greek II., VIII., IX., XI., XII. Physics Phys. Geography, 1	[1]I. Biology, 2 [2]II. Biology, 2	
3.	III. Eng. Language II.B, III., IV., VI., VII. Chemistry [1]I. Biology [2]II. Biology	VI. Ethics II., VIII., XI., XII. Physics Phys. Geography, 2	II., VIII., XI., XII. Physics Hygiene	II., VIII., XI., XII. Physics Phys. Geography, 2	[1]I. Biology, 2 [2]II. Biology, 2	

EXAMINATION GROUPS.

No student is allowed to take more than one course in any of these groups, with the exception of those (bracketed together) which are not given in the same half-year or on the same day. The following courses are not assigned to any group, and may be elected without limitation: XIII. Latin; VIII. Greek; Hebrew; Public Speaking; VI. History; IX. Economics; III.A, IV. Philosophy; V. Psychology; III., IV. Astronomy; II., VIII., XI., XII. Physics; II.B, III., IV., VI., VII., XVI. Chemistry; III., IV. Geology; VII., VIII., IX., X., XI. Biology; IV. Physical Education.

I.—*M.*, *W.*, *F.*, *at 8.*

II. Greek, *W.*, *F.*

{ V. Greek.
{ VI. Greek.

{ V. German.
{ VII. German.

{ III. French, *M.*
{ IV. French, *W.*, *F.*

I. History.

IX. History.

II. Psychology.

{ I. Mathematics.
{ IV. Mathematics.

VII. Mathematics.

II.—*M.*, *W.*, *F.*, *at 9.*

XII. Latin.

{ IX. German.
{ XI. German.

IV. Eng. Literature.

{ II. Mathematics.
{ III. Mathematics.

Zoölogy.

III.—*M.*, *W.*, *F.*, *at 10.*

I. Greek.

[1]I. French.

{ V. French, *W.*, *F.*
{ VI. French, *W.*, *F.*

V. Eng. Literature.

II. History.

{ II. Philosophy.
{ III. Philosophy.

VI. Mathematics.

X. Mathematics.

I. Physics.

II. Geology.

IV.—*M.*, *W.*, *F.*, *at 11.*

I.A Latin, *W.*

VII. Latin, *F.*

X. Latin, *M.*, *W.*

X. Greek.

VIII. Eng. Literature, *M.*, *W.*

[2]X. Eng. Literature, *F.*

VIII. Economics.

{ I. Philosophy.
{ I. Psychology.

{ VIII. Mathematics.
{ XII. Mathematics.

V. Chemistry.

1 May be elected with any one course in this group.
2 May be elected with VIII. English Literature.

V.—*M.*, *W.*, *F.*, *at 12.*

{ XV. Latin.
{ XVI. Latin.
II.B German.
I. Eng. Literature.
IV. Eng. Language, *W.*, *F.*
V. History.
VII. Economics.
{ V. Physics.
{ VI. Physics.
{ X. Chemistry.
{ XIV. Chemistry.

VI.—*M.*, *W.*, *F.*, *at 3.*

III. Eng. Language, *M.*
[1]Hygiene, *W.*
{ General Biology, *M.*, *F.*
{ Botany, *M.*, *F.*

VII.—*T.*, *Th.*, *S.*, *at 8.*

A Greek, *T.*, *Th.*
B Greek, *Th.*
II.A German.
II. French.
Dante in English, *Th.*
VIII. History.
II. Economics.
V. Mathematics, *T.*, *Th.*
I.A Physics, *Th.*
Evolution, *T.*, *Th.*

VIII.—*T.*, *Th.*, *S.*, *at 9.*

I. Latin.
IV. German.
I. Economics.
V. Economics.
{ I. Ethics.
{ II. Ethics.

IX.—*T.*, *Th.*, *S.*, *at 10.*

Italian, *T.*, *Th.*
I. Eng. Language, *T.*, *Th.*
IV. History.
III. Psychology, *T.*, *Th.*
English Bible.
VII. Physics.
I. Chemistry.
Mineralogy, *T.*, *Th.*

X.—*T.*, *Th.*, *S.*, *at 11.*

VIII. Latin, *T.*, *Th.*
{ III. Greek, *T.*, *Th.*
{ IX. Greek, *T.*, *Th.*
[2]I. German.
VI. Eng. Language, *T.*, *Th.*
III. Economics.
Astronomy.
II.A Chemistry, *S.*
XV. Chemistry, *T.*, *Th.*
Physiology, *T.*, *Th.*

XI.—*T.*, *Th.*, *at 12.*

{ IV. Latin.
{ V. Latin.
III. German.
Spanish.
VII. Eng. Language.
XIII. Mathematics.
VIII. Chemistry.

XII.—*T.*, *Th.*, *at 3.*

VI. Ethics, *T.*
Physical Geography.

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1 May be elected with General Biology and Botany.
2 May be elected with any one course in this group.

REQUIREMENTS FOR GRADUATION.

FRESHMAN YEAR.

I. FOR CANDIDATES FOR THE B. A. DEGREE.

Each student must elect not less than *fifteen* nor more than *eighteen* hours per week from the following courses, including I. English Language and Hygiene, which are required of all. The choice must include one three-hour course in Latin or Greek, and one three-hour course from the following: Latin, Greek, mathematics, a modern language.

	Hours per week.
I. English Language,	3
I. Latin,	3
I.A Latin,	1
A Greek,	4
B Greek,	1
I. Greek,	3
I., II., III., IV. Mathematics, each,	1½
I. French, I. German, each,	3
II. French, II. German, each,	3
I. History,	3
I. Physics,	2 or 3
I.A Physics,	1
I. Chemistry,	1½ or 3
Physical Geography, General Biology, Botany, each,	1
Hygiene,	1

II. FOR CANDIDATES FOR THE B. S. DEGREE.

Each student must elect not less than *fifteen* nor more than *eighteen* hours per week from the following courses, including I. English Language and Hygiene, which are required of all:

	Hours per week.
I. English Language,	3
I., II., III., IV. Mathematics, each,	1½
I. French, I. German, each,	3
I . French, II. German, each,	3

	Hours per week.
I. History,	3
I. Physics,	2 or 3
I.A Physics,	1
I. Chemistry,	1½ or 3
Physical Geography, General Biology, Botany, each,	1
Hygiene,	1

Of the following courses, such as are not presented for admission must be passed in college:

I. Mathematics, and either II., III., or IV. Mathematics; I. French and II. French; I. German and II. German.

SOPHOMORE, JUNIOR, AND SENIOR YEARS.

A student must elect in Sophomore and Junior years not less than *fifteen* nor more than *eighteen* hours per week of study, in Senior year not less than *thirteen* nor more than *eighteen* hours per week of study. In the Sophomore year rhetorical exercises are required, which are rated as the equivalent of one hour per week, to be included in the prescribed quota. The requirement for graduation is *sixty* hours of work, inclusive of rhetorical exercises. After the Freshman year there are no required studies, except Sophomore rhetorical exercises; but the election of studies must conform to the following requirements:

A. GROUP SYSTEM.

The departments of study are arranged in the following groups:

Group I.	Group II.	Group III.
Latin,	History,	Mathematics,
Greek,	Economics and Social Science,	Astronomy,
German,	Philosophy,	Physics,
Romance Languages,	Psychology,	Chemistry,
English Literature,	Ethics and the Philosophy of Religion.	Geology,
English Language.		Biology.

A student's courses, including those of the Freshman year, must include at least *twelve* hours from Group I., and at least *nine* hours from each of Groups II. and III. The following

courses offered in college, but taken in preparatory school and presented for admission, may be counted in making up this requirement: Intermediate French (II. French), Intermediate German (II. German), Advanced Mathematics (I., II., III., IV. Mathematics).

B. MAJOR STUDIES.

A student must elect a major study, the requirement for which is not less than *nine* nor more than *twelve* hours' work per week for a year in a department, the studies constituting the major to be elected with the approval of the senior instructor in the department in which the major is elected. The major may consist wholly of studies in one department, or partly of studies in cognate departments, so chosen as to make a consistent program. The following courses will not be allowed to count in making up a major:

I. English Language, the rhetorical exercises of the Sophomore year, Public Speaking, I. French, I. German, I. Chemistry (first-half), Botany, Physical Geography.

The following courses may be offered for a major, even though they have been taken in preparatory school and offered for admission: I., II. French; I., II. German; I., II., III., IV. Mathematics.

DEPARTMENTAL AND OTHER LECTURES, 1913-1914.

In addition to the Courses of Instruction named above, lectures are given each year under the auspices of various departments or associations connected with the University. Most of these lectures are open to the public. In 1913–14 were given the following:

DEPARTMENTAL LECTURES.

DEPARTMENT OF HISTORY. — Professor John Franklin Jameson, Carnegie Institution of Washington: "Institutions for Historical Research."

Professor George Matthew Dutcher: "The Charleston Meeting of the American Historical Association."

MIDDLETOWN SCIENTIFIC ASSOCIATION.

The Middletown Scientific Association, founded in 1871, has a membership of about one hundred, taken partly from the college and partly from the town. Regular meetings are held on the second Tuesday of every month during the college year, in the lecture-room of the John Bell Scott Memorial. During 1913–14 the following addresses were given:

Mr. Frank Bertram Wade, Shortridge High School, Indianapolis, Indiana: "Precious Stones."

Professor Herbert William Conn: "The Other Side of the Eugenics Problem."

Mr. Thomas Hoops, Jr.: "A Trip to Panama."

Professor Arthur Philemon Coleman, University of Toronto: "The Canadian Rockies."

Doctor Charles Edward North: "The Milk Supply — A Municipal Problem."

Mr. Walter O. Filley, Connecticut Agricultural Experiment Station: "Forest Conditions in Connecticut."

Colonel William Paulding: "The Philippines."

Professor George Grant MacCurdy, Yale University: "The Dawn of Art."

Mr. Hiram Percy Maxim: "The Annihilation of Noise."

THE CLASSICAL CLUB.

The Classical Club was founded in 1906 by about twenty of the students taking classical courses. Meetings are held once a month during the college year. The following informal addresses were given before the club in 1913–14:

Professor Harrington: "Roman Cities in Southern France."

Professor Hewitt: "Ancient Caricature."

Professor George Meason Whicher, New York Normal College: "Classical Marbles."

Professor Nicolson: "Pliny the Elder."

Professor Charles Upson Clark, Yale University: "Roman Ruins in Spain."

LA SOCIÉTÉ FRANÇAISE.

A French club was founded in 1907 by a number of students taking courses in the department of romance languages. In

the fall of 1909, the club was reorganized under the title of La Société Française, holding fortnightly meetings at the fraternity houses. The following addresses were given in 1913–14:

Professor Mann: "La France en Afrique."

Doctor Felice Ferrero: "Les Universités de France."

Professor Mann: "Les Chateaux de France."

DER DEUTSCHE VEREIN.

A club was organized October 23, 1909, by undergraduates for further practice in the German language and the study of German culture. Those undergraduates are eligible for active membership (the number being limited to thirty) who are taking or have taken courses in German more advanced than Course II. Members of the Faculty and graduate students may be elected to honorary membership. Meetings are held semi-monthly in rooms in East Hall, where the Verein maintains a German reading-room. Programs, arranged with the advice of the teaching staff in the department, include addresses by instructors in German in other institutions, papers by members, plays, etc. The following addresses were given in 1913–14:

Professor Curts: "Deutschland."

Professor Fife: "Das eingeschlossene Reich."

Professor William Addison Hervey, Columbia University: "Schiller's Freiheitsideal."

Professor Curts: "Rotenburg ob der Tauber."

Doctor Friedrich Schoenemann, Harvard University: "Richard Wagner's Meistersinger von Nürnberg."

Professor Carl Wilhelm Johnson, Williams College: "Körner und die Freiheitsdichter von 1813."

Professor Joseph Wiehr, Smith College: "Gerhart Hauptmann und der Naturalismus."

Doctor Howard Wadsworth Church, Yale University: "Von Hundert Jahren."

Professor Cady: "Im Spreewald."

Professor Curts: "Italienische Erinnerungen."

Professor Hollon Augustine Farr, Yale University: "Studentenerfahrungen in Heidelberg."

GENERAL REGULATIONS.†

REGISTRATION.

Every student of the Junior, Sophomore, and Freshman classes is required to present to the Secretary of the Faculty, on or before the second Wednesday before Commencement, a list of the studies which he proposes to take the next college year. A fee of one dollar shall be paid by each student who fails to present such a list on or before that date. Every student is required to register at the beginning of the first term of each year, at which time changes may be made in the list of studies selected in June. At the same time, members of the Junior class are required to present the list of courses approved by the respective instructors for major studies. A fee of two dollars shall be paid by each student who does not register at the time appointed.

QUOTA OF STUDIES.

The requirement for graduation is sixty hours of work. Freshmen, Sophomores, and Juniors must take not less than fifteen nor more than eighteen hours of work per week, and Seniors not less than thirteen nor more than eighteen hours per week. No student will be allowed to take less than the minimum nor more than the maximum above specified, without special permission of the Administration Committee. A fee of five dollars per hour for the year is charged for all courses taken in excess of eighteen hours per week.

GRADES.

The general character of the work of each student in each study is indicated by his assignment to one of five grades, grade 1 denoting the highest excellence, and grade 5 failure to pass.

† Copies of the detailed Regulations may be obtained from the Secretary of the Faculty.

A student will not be graduated unless he attain a grade higher than fourth in sixty per cent of the work required for graduation.

The Secretary of the Faculty sends to each student, within three weeks after Commencement, a report of his grades in all the studies which he has taken during the year.

EXAMINATIONS.

Regular examinations are held at the end of the year, and during a specified period at the mid-year. The allowance of absence from recitations is, in courses running through the year, twice the number of required exercises a week; in courses running through a half-year the allowance is proportionately diminished. A student who has taken the allowed number of absences in any course, exclusive of those excused by the President or by the Committee on Athletic and Musical Organizations, must thereafter present an excuse for every absence taken in that course, and in case he have one unexcused absence or deficiency in addition to the number allowed, he is excluded from examination and must take a special examination later, paying a fee of five dollars. In the application of this rule, absences from the first or the last exercise of a term in any study, or consecutive absences including the first or the last exercise, are each reckoned as two absences. Absences of the same nature before or after the Thanksgiving recess are each reckoned as two absences.

Special written examinations are held during the week commencing with the Tuesday before the beginning of the first term for all who have been excluded or excused from any of the examinations of the previous year.

For the benefit of students who have not been examined in second half-year subjects, special written examinations are held during the first few days after the Christmas recess, at times announced by the Secretary of the Faculty. For these examinations application must be made before the close of the first term. A fee of five dollars is charged for each examination.

For the benefit of Seniors who have been excluded or excused from any of the examinations during the preceding

part of the year, and for members of the lower classes who have been excused from such examinations, special written examinations are held during the first few days after the Easter recess, provided that application for such examination is made by the candidate before the close of the second term.

A student who fails to pass a final examination in any study before that study is taken up by the next succeeding class is required, unless specially excused therefrom, to recite with that class, or, in the case of an elective study, to substitute some other elective therefor.

PROMOTION.

In order to be promoted from the Freshman class to the Sophomore class, a student must, at the close of the Fall special examinations, have a record of passing in ten hours of college work, and he must have attained a grade higher than fourth in not less than six hours' work. In order to be promoted from the Sophomore to the Junior class, a student must have a record of passing in twenty-five hours of college work, and he must have attained a grade higher than fourth in not less than fifteen hours' work. In order to be promoted from the Junior to the Senior class, a student must have a record of passing in forty-two hours of college work, and he must have attained a grade higher than fourth in not less than twenty-four hours' work.

ENTRANCE CONDITIONS.

A student who fails to make up entrance conditions on or before the first day of November of the next college year is excluded from all recitations until the conditions are made up. A fee of five dollars is charged for an examination in entrance conditions after the regular examination for admission at the beginning of the student's second year in college.

PUBLIC WORSHIP.

Voluntary religious services under the direction of the Young Men's Christian Association are held weekly.

Devotional services, at which the attendance of students is required, are held in Memorial Chapel every week-day morning, and on Sunday afternoons.

The speakers at the Vesper Services of 1913–14 were as follows:

Reverend Charles Wesley Burns, S. T. D., of Philadelphia, Pa.

Reverend Charles Lorenzo Walworth, D. D., of Poughkeepsie, N. Y.

Irving Bacheller, L. H. D., New York City.

Bishop Wilbur Patterson Thirkield, D. D., of New Orleans, La.

Reverend Willis Patterson Odell, Ph. D., D. D., of Brookline, Mass.

Professor Wallace MacMullen, D. D., Drew Theological Seminary.

Reverend George Clarke Peck, D. D., of New York City.

Reverend George Shaw Butters, D. D., of Boston, Mass.

Reverend Lynn Harold Hough, D. D., Garrett Biblical Institute, Evanston, Ill.

Reverend Leon Kurtz Willman, D.D.,'97, of Philadelphia, Pa.

Reverend Jesse Bowman Young, D. D., of Chicago, Ill.

Bishop William Franklin Anderson, LL. D., of Cincinnati, Ohio.

Reverend Nehemiah Boynton, D. D., of New York City.

Reverend Charles Wesley Blackett, Ph. D., of Dorchester Centre, Mass.

Dean Lauress John Birney, D. D., Boston University School of Theology.

Reverend Edward Summerfield Ninde, D. D., '87, of Providence, R. I.

Reverend Daniel Dorchester, D. D., '74, of New York City.

Reverend Fred Winslow Adams, D. D., of Schenectady, N. Y.

Reverend Edward Cooke Strout, '86, of Nashua, N. H.

President Albert Parker Fitch, LL. D., Andover Theological Seminary.

Reverend George Peck Eckman, D. D., ex-'84, Editor of *The Christian Advocate.*

Reverend William Sherman Bovard, D. D., Secretary of the Methodist Brotherhood.

Reverend Charles Edward Spaulding, '86, of Dorchester, Mass.

Bishop Theodore Sommers Henderson, D. D., LL. D., '92, of Chattanooga, Tenn.

Reverend Edgar Blake, D. D., of Chicago, Ill.

Reverend Ralph Spalding Cushman, '02, of Fall River, Mass.

Reverend Joseph Beaumont Hingeley, D. D., of Chicago, Ill.

Reverend Christian Fichthorne Reisner, D. D., of New York City.

Reverend Albert Ernest Legg, '99, of Elmira, N. Y.

Bishop Edwin Holt Hughes, D. D., LL. D., of San Francisco, Cal.

Bishop Francis John McConnell, Ph. D., D. D., LL. D., of Denver, Col.

Bishop Luther Barton Wilson, D. D., LL. D., of New York City.

Reverend David George Downey, D. D., '84, of New York City.

Reverend Lewis Marshall Lounsbury, '94, of Albany, N. Y.

Professor Frederick Watson Hannan, D. D., '90, Drew Theological Seminary.

LEAVE OF ABSENCE.

A student who desires excuse from college exercises on account of absence from town must apply to the President for permission to be absent, and, unless the circumstances of the case render it impracticable, such permission must be obtained before the student's departure.

STUDENT ORGANIZATIONS.

No student who has failed of promotion from the class below, no student who is on probation or under censure, no member

of the Freshman class who has entrance conditions exceeding two units, no special student, no graduate student, and no Senior who is permitted to count the Senior year in fulfilment of the requirement of residence for the Master's degree, is allowed to take part, as a member of a University athletic team, in any athletic contest, or to appear in any public exhibition of any musical or dramatic organization, or to act as manager or assistant manager of any athletic, musical, or dramatic organization; and any student whose college work is unsatisfactory at any time during the college year may be debarred from taking part in such a contest or exhibition. No member of the Freshman class is allowed to represent the University on athletic teams during the first half of the year.

THE ATHLETIC COUNCIL.

In 1903 the Trustees authorized the organization of an Athletic Council, composed of three representatives each of the Faculty, the alumni, and the undergraduates. The Council has general supervision over the athletic affairs of the college, subject to certain veto powers retained by the Faculty. It administers eligibility rules, except as regards scholarship, approves schedules, ratifies the election of captains and managers, and controls the finances of the several departments of athletics, through a financial secretary. The officers of the council for 1914–15 are: Seward V. Coffin, '89, President; Walter R. Stillman, '15, Vice-President; Professor Edgar Fauver, Secretary; Professor L. A. Howland, Financial Secretary.

EXPENSES.

The annual charges in the Assistant Treasurer's bill are as follows:—

Tuition, - - - - - - - - - - - -	$90 00
Incidentals, use of library and reading-rooms, etc.,	50 00
Total, - - - - - - - - - - - -	$140 00

A fee of two dollars is charged for I. Chemistry, and a fee of one dollar for General Biology and for Botany. For the laboratory courses in physics, chemistry, and biology, fees are charged which vary with the nature of the course and with the number of exercises elected per week. The fee for each exercise per week in practical physics, in practical biology, and in II. and XIII. Chemistry, is five dollars; in III., IV., VII., and XI. Chemistry, eight dollars. The fees of graduate students in laboratory courses are determined by the instructor in each case. Students electing the chemistry courses named are required in addition to make a deposit of five dollars, which is refunded at the close of the course after charges for breakage have been deducted.

A diploma fee of five dollars is charged to each student at graduation.

A fee of five dollars is required of every candidate for the Master's degree before his course of study can be approved by the Committee on Graduate Instruction.

A diploma fee of ten dollars is charged to each graduate student upon promotion to the Master's degree.

The college bills are payable soon after the beginning of each semester. Unless the bill for any semester is paid, or payment thereof guaranteed, on the day appointed, the student is liable to exclusion from recitations.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or payment thereof guaranteed.

A student who is absent from college on account of sickness, or for other cause, and who retains his place in his class, must pay the full college bills during his absence.

Board may be obtained in private families at prices varying from $3.75 to $5.00 a week. The college fraternities maintain clubs which supply board to their members at prices ranging from $3.50 to $5.00 a week. The price of board at the college dining hall is $3.00 a week.

Other expenses incident to college life vary with the habits and circumstances of the student. They are not, of necessity, so great as to be burdensome to persons in moderate circumstances. Instances have been extremely rare in which students of good ability and health have been compelled to leave college for want of money.

DORMITORY ACCOMMODATIONS.

The new North College, at the end of College Row, contains one hundred and one rooms that are available for students. The rooms are lighted by electricity, heated by steam, and provided with single beds, mattresses, chiffoniers, and desks. The prices indicated below include the care of the room. An extra charge for electric light is also made, the charge depending upon the electric power furnished. A diagram showing the location of rooms, with dimensions, also a price-list giving number of occupants allowed in each room, will be sent upon application to the Secretary of the Faculty.

Rooms are rented also in Observatory Hall and in East Hall, at a lower rate than is the case in North College. The rooms in East Hall are not furnished. Most of the rooms in both buildings are lighted with either gas or electricity, for which an additional charge is made.

Each student renting a room must make a deposit of ten dollars ($10) at the time the assignment is made, and must sign a contract binding him to pay the rent of the room and to occupy the room in person through the entire college year. This deposit will be forfeited in case the student fails to return to college or in case he does not enter; otherwise the deposit will be credited on his bill for room-rent.

Students are permitted to take lodgings in town, but the places in which they room or board are in all cases subject to the approval of the Faculty. If any of the rooms in the college are thus left vacant, the rent of such rooms may be charged to holders of free scholarships who room in town.

Application for rooms should be made to the Secretary of the Faculty.

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Application for rooms should be made to the Secretary of the Faculty.

PRICES OF COLLEGE ROOMS.

North College (Furnished Rooms).

No.	Rent.	Heat.	No.	Rent.	Heat.	No.	Rent.	Heat.
1, 2	$110	$24	35	$60*	$16	69	$60*	$20
3	80	20	36	80	20	70, 71, 72	125†	30
4	50	16	37, 38	110	24	73	50	16
5, 6	100	24	39, 40	110	24	74	50	16
7	60*	20	41	50	16	75, 76	110	24
8	50	16	42	50	16	77, 78	110	24
9	80	20	43, 44, 45	125†	30	79	80	20
10, 11, 12	125†	30	46	60*	20	80	60*	20
13, 14	110	24	47, 48, 49	125†	30	81, 82	100	24
15	50	16	50	50	16	83, 84	100	24
16	50	16	51	50	16	85	60*	20
17, 18, 19	125†	30	52, 53	110	24	86	80	20
20, 21, 22	125†	30	54, 55	110	24	87, 88	110	24
23	50	16	56	60*	16	89, 90	110	24
24	50	16	57, 58	100	24	91	50	16
25, 26	110	24	59	80	20	92	50	16
27, 28	110	24	60, 61	110	24	93, 94	100	24
29	80	20	62, 63	110	24	95	50	20
30	60*	16	64	50	16	96, 97	100	24
31, 32	100	24	65	50	16	98	50	16
33, 34	100	24	66, 67, 68	125†	30	99	50	16
						100, 101	110	24

* Rent $75, if occupied by two persons.

† Rent $150, if occupied by three persons.

Observatory Hall (Furnished Rooms).

No.	Rent.	Heat.	Remarks.
1	$55	$12	Rent $60, if occupied by 2 persons.
2 } 4 }	90	20	" 100, " " 3 "
3	45	12	
6	50	12	" 55, " " 2 "
7	50	12	" 55, " " 2 "
9	50	15	" 55, " " 2 "
10	50	12	" 55, " " 2 "
11	80	15	" 90, " " 2 "
12	90	20	" 100, " " 3 "
13	90	16	" 100, " " 3 "
14	90	18	" 100, " " 3 "
15	50	15	" 55, " " 2 "
16	55	15	" 60, " " 2 "
17	50	15	" 55, " " 2 "
18	45	12	
19	100	18	" 110, " " 3 "
20	100	18	" 110, " " 3 "

East Hall (Unfurnished Rooms).

No.	Rent.	Heat.	No.	Rent.	Heat.	No.	Rent.	Heat.
1	$85	$16	10	$75	$16	16	$45*	$12
2	85	16	11	75	16	17	45*	12
5 } 6 }	60	15	12	75	16	18	45*	15
			13	45*	12	19	45*	12
8	45	12	14	45*	16	20	45*	12
9	75	16	15	45*	15	21	35	12

* Rent, $60 for two persons.

COLLEGE DINING HALL.

In order to reduce the expense of a college course, the college maintains a dining hall, where board may be obtained at a low rate. There is accommodation for about one hundred boarders. The college is responsible for the general management, the details being in charge of a matron who is responsible to a college officer. Bills are paid into the college treasury, and the college assumes all financial responsibility. The rate of board is at present three dollars a week.

MATERIAL EQUIPMENT.

NEW BUILDINGS.

WILLBUR FISK HALL, opened in the summer of 1904, is occupied by the departments of language, literature, history, economics, and philosophy. It is of Portland brownstone and practically fireproof, 113 by 62 feet in dimensions, three stories in height above a lofty and well-lighted basement story, and cost one hundred and fourteen thousand dollars. It contains ten private studies for professors in charge of departments, fourteen lecture-rooms, seven commodious seminary rooms, and a well-appointed psychological laboratory.

In the planning and construction of the building careful attention was paid to matters of heating, lighting, ventilation, and drainage. It is believed that in dignity of external appearance, interior finish, convenience of arrangement, and adaptation at all points to the uses for which it is designed, it is a model college building.

THE JOHN BELL SCOTT MEMORIAL, a new Physical Laboratory, was completed in 1904 at a cost of one hundred and eighteen thousand dollars. It is the gift of the late Charles Scott and of his son, Charles Scott, of the class of 1886, in memory of John Bell Scott, of the class of 1881, who died of disease contracted while serving as Chaplain of the U. S. Cruiser *St. Paul* during the Spanish-American war.

It is a beautiful and imposing building constructed of Harvard brick and Indiana limestone. Its main part has a frontage of 102 feet and a depth of 51 feet, and in the rear is an extension 50 by 30 feet. The building consists of basement, three stories, and attic, except that the third story is omitted in the extension. The main lecture-room contains nearly two hundred seats, and there is a smaller lecture-room capable of seating about forty persons, which is at present fitted up for the use of the class in descriptive geometry. The building

contains twenty-two rooms for experimental work, elementary and advanced, in addition to lecture and apparatus rooms, photographic dark-rooms, storerooms, offices, a library, and a room for draughting and computing. There is also a tower 4 by 6 feet in cross section, with a height of 54 feet in the clear, which can be used for experiments requiring great vertical extension.

The building is equipped with an exceptionally extensive and complete system of wiring for the purpose of distributing to all points, for experimental use, electric currents from the city mains as well as from the storage battery and generators in the basement. For the most part the interior is finished with exposed brick walls, painted a light tint, and with exposed floor timbers and pipe work.

THE NEW NORTH COLLEGE was occupied as a dormitory in January, 1908. It is of Portland brownstone, practically fireproof, 152 by 48½ feet in dimensions, four stories in height above a basement, and cost about $135,000. The building contains one hundred and one rooms, arranged to satisfy varying demands. There are lavatories in the basement and on the third floor, supplied with tub and shower baths. The floor construction is of reinforced concrete throughout, and the stairs of iron and slate. The building is heated by steam from the central heating plant, and all rooms are lighted by electricity. All partitions in the basement, corridors, and stair-wells are of hollow terracotta brick.

SOUTH COLLEGE, which formerly was used for recitation rooms and studies, has been remodeled to serve as an administration building. The entrance to the building has been raised and a new flight of steps constructed as an approach. The old wooden staircases have been replaced by new ones of iron, with slate treads. The first floor is used as a storeroom by the library. The second and third floors contain private offices for the President and the Secretary of the Faculty, a stenographer's room and a storeroom, and a spacious room, finished in quartered oak, used for Faculty meetings and as a general office. On the fourth floor are a number of two-room suites for dormitory use.

SWIMMING POOL. Through the generosity of a friend of the college, an addition has been built on the east end of the gymnasium in which a swimming pool has been constructed, measuring sixty by thirty feet. The cost of the structure is approximately forty thousand dollars. The pool was opened for use in January, 1914. A more detailed description will be found on page 125.

LIBRARY AND READING-ROOMS.

THE LIBRARY in Rich Hall contains about ninety-eight thousand volumes. The library is open every week-day of the college year from 8 A. M. to 10 P. M. Students are allowed direct access to the shelves.

The increase of the Library is provided for from the income of the following funds, amounting to $101,399:—

THE ALUMNI LIBRARY FUND, $37,552, the aggregate of numerous gifts from alumni and friends of the University.

THE HUNT LIBRARY FUND, $32,104, established by Rev. Albert Sanford Hunt (B. A., 1851, D. D., 1873), of Brooklyn, N. Y.

THE WILCOX LIBRARY FUND, $21,402, established by Mrs. Harriet H. Wilcox, of Brooklyn, N. Y.

THE WISE LIBRARY FUND, $5,095, for the purchase of scientific books, established by Rev. Daniel Wise, D. D., of Englewood, N. J.

THE MEAD LIBRARY FUND, $5,093, established by Miss Elizabeth J. Mead, of Stamford, Conn.

THE GONA LIBRARY FUND, $153, established by a friend of the department of chemistry for the purchase of books for that department.

In the basement of Fisk Hall is a reading-room, provided with daily and weekly newspapers. Another reading-room, on the second floor of Rich Hall, contains the current issues of the important magazines and reviews.

cubic feet of air per minute at a pressure of 3,000 pounds, and a liquefier. The capacity of the liquefier is about five liters of liquid-air per hour.

THE BIOLOGICAL LABORATORY occupies six rooms in Judd Hall, and is capable of accommodating about thirty students. Five rooms are used for general laboratory purposes, of which two are devoted to miscellaneous laboratory work, one to general laboratory work of large classes, one to coarse dissection, and one to bacteriological work. The laboratory is equipped with all the apparatus necessary for elementary biological work, and is provided with an abundance of material for anatomical and histological study. The general laboratory room contains a type collection illustrating all orders of animals, and students are allowed to use the large museum collection for comparison and direct study. The laboratory is especially well equipped for bacteriological work. Advanced students of the department have also the advantage of the use of the State Bacteriological Laboratory, located in the John Bell Scott Memorial.

THE AMOS JAY GIVENS BIOLOGICAL FUND.—A fund of twenty-five thousand dollars has been given by Amos Jay Givens, M. D., LL. D., of Stamford, the income of which is to be used for the equipment and maintenance of the department of biology, or for the promotion of research in that department.

THE MACHINE SHOP occupies the west room in the boiler house, and is in charge of a skilled mechanician. It is equipped with first-class power lathes, planer, shaper, etc., and affords ample facilities for the construction of new apparatus, for purposes both of demonstration and of investigation; for the repair of apparatus already in use; and, to a limited extent, for the instruction of advanced students who have exceptional mechanical aptitude.

MATHEMATICAL MODELS. This collection, the gift of Ebenezer Hill (B. A., 1870), of South Norwalk, Conn., comprises a complete set of the models made by Brill of Darmstadt, for illustration in the higher branches of mathematics, as well as in mathematical physics and crystallography. The models are arranged in a series of cases in the mathematical reading-room in Observatory Hall.

GYMNASIUM AND ATHLETIC FIELD.

THE FAYERWEATHER GYMNASIUM is located on the north side of the rear campus, parallel with Wyllys Street. Its dimensions are 55 by 205 feet.

The basement contains a baseball cage, a large room for shower baths, a room adjacent for rubbing and drying, a large locker room, and toilet rooms. On the first floor is the main hall of the gymnasium, which is well equipped and affords ample room for every variety of gymnastic exercise. The director's office and a room for visiting teams are also on the first floor. The running track is suspended from the roof, above the main floor. Special attention has been paid to ventilation, drainage, and lighting, and the building is believed to contain the best features of a modern gymnasium.

An addition to the main building, completed in January, 1914, contains a swimming pool measuring sixty by thirty feet. The pool is lined with white tiles, with lanes in the bottom marked in blue, and is equipped with a terracotta life-rail and gutter, with markings showing depth and distances. The walls and the walk around the pool are of white tiles. The pool is nine and a half feet deep at the east end, and four feet deep at the west end. There is a gallery at the west end, entered from the main floor of the gymnasium. The pool is lighted by large windows at the east end, and by windows on the sides. Artificial lighting is furnished by a system of reflected light. Provision is made for a system of refiltering, and the pool is in every way sanitary.

Exercise in the gymnasium and on the athletic field is required of the Freshman class three hours a week for the year, and of the Sophomore class in the gymnasium three hours a week from Thanksgiving until the end of the winter term. Elective work in the gymnasium is offered to the Junior and Senior classes.

THE ANDRUS FIELD lies in the rear of the main line of college buildings, just south of the gymnasium. A quarter-mile cinder track, with a "straight-away" of 100 yards, encircles one portion of the field, within which ample room is

afforded for baseball and field and track athletics. Football is played in another part of the field which has recently been improved for the purpose. An outdoor board track has been built by one of the college fraternities in memory of Jesse Lyman Hurlbut, Jr., class of 1900. It is about thirteen laps to the mile, and is banked at the corners. The entire field, covering seven acres, provides sufficient space for class and 'varsity teams to practise at the same time. Its proximity to the college enables the whole student body to keep in touch with the training in all branches of athletics, and affords the teams an opportunity to use the dressing-rooms and baths reserved for them in the gymnasium.

At the southern end of the field is a covered grand-stand, capable of seating four hundred persons.

MUSEUM.

THE MUSEUM OF NATURAL HISTORY AND ETHNOGRAPHY occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to their educational use, and are freely accessible to students.

The nucleus of the departments of zoölogy and botany was formed by the Shurtleff collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The zoölogical department received in the years between 1872 and 1881 most important accessions in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland also added large and valuable collections. Valuable collections of insects were presented by Richard L. de Zeng in 1896, and by Mrs. E. K. Hubbard in 1898. In 1908 a fine collection of birds' nests, and a collection of alcoholic reptiles and amphibians, from Portland and Cromwell, was received from Mr. Charles H. Neff. At the death of Mr. Neff in 1911, his entire collection came as a legacy to the museum. The collection is rich in skins, mounted specimens, and eggs

of the birds of Portland and vicinity. The zoölogical department includes about thirteen thousand species. The vertebrata of North America, the marine invertebrata of New England, and the mollusca in general, are especially well represented.

The herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the university in 1879. The herbarium of Rev. Merrill Hitchcock, B. A., including about 700 specimens, of which about 200 are from Connecticut, was presented to the museum in 1908.

The mineralogical department includes about three hundred and fifty species, and a much larger number of varieties. The Franckfort collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated are well represented by collections commenced by the labors of Professor Johnston (1835–1868), and largely increased in later years. Important accessions were obtained in 1899 by collecting trips to Nova Scotia and to Herkimer County, N. Y. The Sheldon collection, purchased in 1904, includes many beautiful and valuable specimens.

The geological department includes collections in lithology, physical geology, and paleontology. The lithological collection received in 1897 a valuable accession in the gift of a set of the educational series of rock specimens described in Bulletin No. 150 of the U. S. Geological Survey, presented by the Survey. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique. A valuable collection of Tertiary fossils was received in 1887 from the Smithsonian Institution, in exchange for duplicate shells from the Shurtleff collection. The collections in paleontology have been very largely increased since 1893 by the work of the late curator, S. Ward Loper, M. A., in the vicinity of Middletown, at Valcour Island, Lake Champlain, in western Maryland, in the vicinity of Chattanooga,

Tenn., Cañon City and Florissant, Col., and Fossil, Wyo., and in Nova Scotia. Especially important among these accessions are the collections of fossil fishes and plants from the Triassic shales of the Connecticut valley, and of Tertiary fishes and plants from Fossil, Wyo., and Tertiary plants and insects from Florissant, Col. A choice collection of European fossils, including a number of beautiful specimens from the lithographic limestone of Solenhofen, was received in 1895 from the University Museum of Munich, in exchange for American fossils. The private collection of Mr. Loper, purchased for the museum in 1900, is very rich in fossil fishes and plants from the fossiliferous shales of the vicinity of Middletown.

The ethnographical department is especially rich in specimens illustrating the life of the aborigines of North America. Important contributions of pottery, casts of implements, models of dwellings, and other objects, have been received from the Smithsonian Institution. A very valuable collection of objects from burial mounds near Chattanooga, Tenn., was deposited in the museum in 1896 by Hon. A. R. Crittenden, and has since then been purchased. The private collection of Mr. Loper, purchased in 1903, contains many interesting Indian relics from the vicinity of Middletown. The collection of local Indian relics has been greatly increased by the legacy of Charles H. Neff in 1911. The department also possesses a valuable collection of pottery from the guano beds of Peru, presented by Joseph S. Spinney; a collection of Mexican antiquities, presented by Hon. Arnold Shanklin, United States Consul General in Mexico; an interesting collection of weapons and other objects from the South Sea Islands; a collection of weapons and implements from equatorial West Africa, presented by Frederick B. Northam; a collection of relics from Assuan, Egypt, presented by Clarence S. Wadsworth, B. A.; and valuable collections of objects illustrative of Chinese life and customs, presented by Rev. Marcus L. Taft, D. D., Mrs. W. W. Wilcox, Rev. John Gowdy, D. D., and Rev. Joseph Beech, D. D. The collection of coins numbers about 4,500, exclusive of duplicates. Included in this number is a collection of about 1,800 Chinese coins, some of which are ancient and very rare, presented by Rev. Marcus L. Taft, D. D. Other valuable collections of

Chinese coins have been received from Rev. John Gowdy, D. D., and Rev. Joseph Beech, D. D. A valuable collection of Greek and Roman coins and facsimiles of such coins, historical medals, and copies of such medals, was presented to the museum in 1906 by Stephen H. Olin, LL. D. Additional specimens subsequently presented by Dr. Olin make the number of specimens in this collection more than 600. The greater part of the ethnographical collection is at present arranged in the lower hall of the museum, with the collections in mineralogy and geology. The coins (with the exception of the Olin collection and certain other special collections placed on exhibition in the museum) are kept in a case in the classical seminary room in Fisk Hall, where they can be seen by students and others on special application.

The following is an approximate statement of the number of specimens in the various departments of the museum:—

DEPARTMENT OF ZOÖLOGY.

Mammals—skins mounted and unmounted,	225
alcoholic,	50
skulls and skeletons,	110
Birds—skins mounted and unmounted,	2,000
nests and eggs,	1,600
Reptiles,	600
Amphibians,	200
Fishes,	2,100
Insects—pinned and alcoholic,	6,500
nests, borings, etc.,	50
Crustacea,	1,500
Worms,	1,800
Mollusks—shells,	90,000
alcoholic,	4,000
Echinoderms,	1,000
Cœlentera,	1,700
Sponges and protozoa,	150

DEPARTMENT OF BOTANY.

Plants in herbarium,	11,400
Specimens of wood,	400
Miscellaneous botanical specimens,	1,100

DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks,	22,000
Fossils—Paleozoic,	11,500
Mesozoic,	3,700
Cenozoic,	3,000

DEPARTMENT OF ETHNOGRAPHY.

Miscellaneous ethnographic specimens,	4,400
Coins,	7,000

The museum is open to the public on Wednesday and Saturday afternoons.

FELLOWSHIPS AND SCHOLARSHIPS.

THE SQUIRE FELLOWSHIP.

This fellowship was founded by Hon. Watson Carvosso Squire (B. A., 1859, LL. D., 1911), of Seattle, Wash. It is open to Bachelors of Arts of Wesleyan University or of other colleges. The tenure of the fellowship is one academic year, with the possibility of reappointment for a second year. The income is not less than $400 nor more than $450. The Fellow shall devote himself to advanced study under the direction of the instructors in the department of Greek.

THE RICH FELLOWSHIP.

This fellowship was founded by Mr. William Thayer Rich, of Boston, Mass., a trustee of the University. The income is $450. It is awarded for study in the department of Economics and Social Science.

TUITION SCHOLARSHIPS.

Each year the Trustees place at the disposal of the President, for the benefit of needy and worthy students, a sum of money which is used to pay, in whole or in part, the charge for tuition.

Perpetual scholarships established by John M. Howe, Ralph Mead, James Strong, and Charles Woodbury have been transferred by their heirs to the University. These scholarships, which are at the disposal of the President, exempt the holders from the charge for tuition.

In addition to these free tuition scholarships are the following:—

THE LOVELAND SCHOLARSHIP.

This scholarship was founded by Miss Louisa Loveland. The income of $2,714 is available, at the discretion of the Faculty, for the use of a deserving student who needs

pecuniary assistance. For this scholarship only such students as intend to devote themselves to the work of the Christian ministry in the Methodist Episcopal Church can be candidates.

THE JOHN EVANS SCHOLARSHIP.

This scholarship was founded by Mrs. Ann Evans in memory of her husband. The income of $2,163 is given annually to that member of the Senior or Junior class who is named by the Board of Trustees, or by some authority to whom they may delegate the nomination. For this scholarship only such students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates.

SCHOLARSHIP FUNDS.

The income of the following scholarship funds is available, at the discretion of the President, to pay, in whole or in part, the tuition of deserving students who need pecuniary aid:

The Frank S. Jones Scholarship Fund, $1,092, founded by Frank S. Jones, of Brooklyn, N. Y.

The Billings Scholarship Fund, $3,762, founded by William Perry Billings, of Kingston, Pa.

The Shonk Scholarship Fund, $25,796, founded by John J. Shonk and Mrs. George W. Shonk, of Plymouth, Pa., in memory of Hon. George W. Shonk (B. A., 1873).

The Starks Scholarship Fund, $1,101, founded by Mrs. Elizabeth B. Starks, of Troy, N. Y.

The Philip Reynolds Scholarship Fund, $1,100, founded by Philip Reynolds, of Brockton, Mass.

The Connell Scholarship Fund, $3,259, founded by Hon. William Connell, of Scranton, Pa.

The Shepherd Scholarship Fund, $3,221, founded by James G. Shepherd, of Scranton, Pa.

The Swift Scholarship Fund, $17,269, founded by Mrs. Annie M. Swift, of Chicago, Ill., in memory of her husband, Gustavus F. Swift.

The George G. Reynolds Scholarship Fund, $2,650, founded by Hon. George G. Reynolds (B. A., 1841, LL.D., 1871), of Brooklyn, N. Y.

The Cyrus D. Jones Scholarship Fund, $5,233, founded by Cyrus D. Jones, of Scranton, Pa.

The Harriet Townsend Reynolds Scholarship Fund, $2,649, founded by Hon. George G. Reynolds (B. A., 1841, LL. D., 1871), of Brooklyn, N. Y., in memory of his wife.

The Frank Reynolds Scholarship Fund, $2,649, founded by Hon. George G. Reynolds (B. A., 1841, LL.D., 1871), of Brooklyn, N. Y., in memory of his son, who graduated in 1868.

The Abigail Pennoyer Reynolds Scholarship Fund, $2,615, founded by Hon. George G. Reynolds (B. A., 1841, LL.D., 1871), of Brooklyn, N. Y., in memory of his mother.

The Samuel D. Hubbard Scholarship Fund, $10,500, founded by Miss Jennie M. Clarke, of Middletown, in memory of her uncle, Honorable Samuel Dickinson Hubbard, for many years a trustee of Wesleyan University.

The Montgomery Scholarship Fund, $1,028, founded by the Rev. John E. Adams, D. D., of Patchogue, N. Y., trustee of the Jane P. Fitch Benevolent Fund, in memory of Rev. James Montgomery.

The Mead Scholarship Fund, $2,336, founded by Miss Elizabeth J. Mead, of Stamford, in memory of her father, Rev. Nathaniel Mead.

The Lewis Gunn Scholarship Fund, $2,552, founded by Mrs. Mary C. Holman, of Hopkinton, Mass., and Mrs. Lillie G. Smith, of Washington, Conn., in memory of their father, Rev. Lewis Gunn.

The Jane D. Boardman Scholarship Fund, $10,152, founded in memory of Mrs. Jane D. Boardman, of Middletown, by the executors of her estate, Hon. Frank B. Weeks, of Middletown, and Dr. Joseph H. Townsend, of New Haven.

The Walter Hubbard Scholarship Fund, $40,567, founded by Walter Hubbard, of Meriden.

The Butler Scholarship Fund, $5,000, founded by Seth H. Butler and his sons, Abbott G., Earle C., and Dale D. Butler, all of Middletown.

The Alexander Montague Atherton Scholarship Fund, $5,029, founded by Mrs. J. B. Atherton, of Honolulu, Hawaii, in memory of her son, who graduated in 1897.

The Robert Alfred Davison Scholarship Fund, $5,040, founded by George Willets Davison (B. A., 1892), of New York, N. Y., and his wife, Harriet Baldwin Davison, in memory of their son.

LOAN FUND.

Besides the scholarships above mentioned, there is a small fund from which loans are made to deserving students in the Junior and Senior classes. These loans bear a moderate rate of interest and are payable usually after graduation.

COLLEGE HONORS.

PRIZES.

THE JOSEPH D. WEEKS PRIZE.—A prize of fifteen dollars is awarded for the best essay on some specified subject in the department of economics. The subject for the essay of 1915 is: How far is the Theory of Trust Regulation applicable to Labor Unions. The essays must be left with the head of the department on or before May 15, 1915. Three type-written copies must be submitted by each competitor.

THE PEIRCE PRIZE.—A prize of ten dollars, the income of a fund given by Rev. Bradford K. Peirce, D. D., is awarded for excellence in natural science. It will be given in 1915 upon a special examination based on the course in evolution. The subject of the examination in 1916 will be geology; in 1917, chemistry.

THE PHI BETA KAPPA PRIZE. — A prize of twenty-five dollars, the gift of the Connecticut Gamma of Phi Beta Kappa, is awarded for excellence in Latin. It will be given in 1915 upon a special examination on the Satires of Horace.

THE G. BROWN GOODE PRIZE.—A prize of ten dollars, the gift of Mrs. G. Brown Goode, is awarded for the best original investigation in the department of natural history.

THE JOHN BELL SCOTT PRIZE.—A prize of forty-five dollars, the income of a fund given by the late Charles Scott, is awarded for excellence in the modern languages. It will be given in 1915 for the best essay on Grillparzer's Dramatic Art. In 1916 the prize will be given for special work in the department of romance languages.

THE GIFFIN PRIZE.—A prize of twenty dollars, the income of a fund given by Mrs. Giffin in memory of her husband, Rev. Charles Mortimer Giffin, D. D., is awarded for the best essay, by a member of the Senior class who is preparing to enter the Christian ministry or some other form of Christian

work, upon some topic in the general field of the philosophy of religion. Originality of style and freshness of thought are considered in making the award. The topic should be chosen in consultation with the Professor of Ethics, and the essay should be handed to him on or before the third Monday in May (May 17, 1915).

No person who has once taken either the Joseph D. Weeks, the Phi Beta Kappa, or the G. Brown Goode prize, may compete for it again.

THE WEEKS PRIZE.—A prize of fifteen dollars is awarded for excellence in modern philosophy. It will be given in 1915 for the best examinations in Courses II. and III. in philosophy, and for additional work to be assigned by the instructor.

THE CAMP PRIZE.—A prize of twenty-five dollars, the income of a fund given in memory of Samuel T. Camp, is awarded for excellence in English literature. It will be given in 1915 upon a special examination in Course I. in English literature.

THE JOHNSTON PRIZE.—A prize of twenty-five dollars, the gift of Rev. David G. Downey, D. D., in memory of Professor John Johnston, is awarded for excellence in electricity. It will be given in 1915 upon a special examination based on the first half of Course VII. in physics.

THE SPINNEY PRIZE.—A prize of fifteen dollars is awarded for excellence in Greek. It will be given in 1915 for special work based in part on the first half of Course II. in Greek.

THE RICE PRIZE.—A prize of twenty dollars, given in memory of Rev. William Rice, D. D., is awarded for excellence in mathematics. It will be given in 1915 upon an examination based on Course VII. in mathematics.

THE WALKLEY PRIZE.—A prize of twenty dollars, the income of a fund given by Webster R. Walkley, D.C.L.—*in memoriam* David Hart Walkley, born April 23, 1857; graduated June 27, 1878; died September 16, 1878—is awarded for excellence in psychology. It will be given in 1915 for the best examination on the work of the elementary course in psychology, including the collateral reading.

THE GERALD PRIZE.—A prize of twenty dollars, the gift of Herbert Parvin Gerald, B. A., is awarded for excellence in some special phase of the work in one of the courses in English literature assigned to the Junior year. It will be given in 1915 for excellence in the oral interpretation of the poetry of Robert Browning.

Students who compete for either the Weeks, the Camp, the Johnston, the Spinney, the Rice, the Walkley, or the Gerald prize must do so during the year in which they regularly pursue the course or courses on which the examination for the prize is based.

THE WISE PRIZE.—A prize of fifteen dollars, the income of a fund given by Rev. Daniel Wise, D. D., is awarded to that member of the Senior class who excels in ethics. It will be given in 1915 to that member of the Senior class who presents the best paper on: Nationalism and Internationalism, ethically considered, with especial reference to the European work.

THE PRENTICE PRIZE.—A prize of twenty-five dollars, given by Mrs. Elizabeth Brooks Prentice in memory of Professor George Prentice, is awarded to that member of the Senior class who excels in German. It will be given in 1915 upon a special examination on the history of German literature from the beginning of the seventeenth century to the death of Goethe.

THE SHERMAN PRIZE.—A prize of ten dollars, the income of a fund given by Rev. David Sherman, D.D., is awarded this year to that member of the Freshman class who excels in mathematics. It will be given upon a special examination based on certain of the courses in Freshman mathematics. The subject of the examination in 1916 will be Latin; in 1917, Greek.

THE AYRES PRIZE.—A prize of forty-five dollars, the income of a fund given by Daniel Ayres, M. D., LL.D., is awarded to that member of the Freshman class who is found upon a special examination, held shortly after the beginning of the college year, to have attained the highest excellence in the following studies: Latin, Greek, English, ancient history, and mathematics.

THE RICH PRIZE.—A prize of thirty dollars, the income of a fund given by Isaac Rich, in memory of his wife, is awarded to that member of the Senior class whose oration at Commencement is deemed best in composition and delivery. These orations must not exceed twelve hundred words in length, and must be left with the Professor of English Literature on or before the second Tuesday preceding Commencement (June 15, 1915).

THE OLIN PRIZE.—A prize of ninety dollars, the income of a fund given by Mrs. Julia M. Olin, and increased by Stephen Henry Olin, LL.D., is awarded to that member of the Senior class who excels in English composition. The subject for the essay of 1915 is: Thomas Carlyle, His Character and Influence. The subject for the essay of 1916 is: Robert Browning as an Ethical Teacher. Essays must be left with the Professor of English Literature on or before the first Monday of the third term (April 12, 1915).

JUNIOR EXHIBITION PRIZES.—Two prizes, of twenty and fifteen dollars respectively, are awarded to the two members of the Junior class who present the best orations at the annual Junior Exhibition. In the award of these prizes, both the composition and the delivery of the orations are considered. The orations must be left with the Professor of the English Language ten days before the date of the Exhibition (February 20, 1915).

THE COLE PRIZE.—A prize of thirty-five dollars, the gift of George Henry Walker, B. S., in memory of Charles Edward Cole, is awarded to that member of the Sophomore class who maintains the highest standing in English composition from the mid-year period of his Freshman year to the end of his Sophomore year.

THE BRIGGS PRIZE.—A prize of sixty-five dollars, the income of a fund given by James E. Briggs, is awarded to the student who excels in debate. No person who has once taken the Briggs prize may compete for it again.

DECLAMATION PRIZE.—A prize of fifty dollars is awarded as a first prize to that member of the Junior or Sophomore class who excels in declamation. In the competition for this prize the selections rendered must be of a forensic character.

THE PARKER PRIZE.—A prize of ten dollars, the income of a fund given by Rev. John Parker, is awarded in the same classes, as a second prize for excellence in declamation.

THE HIBBARD PRIZE.—A prize of twenty-five dollars, the gift of Ralph B. Hibbard, Ph. B., in memory of Professor Ralph Guernsey Hibbard, is awarded to that member of the Freshman class who excels in declamation.

THE TAYLOR PRIZE.—A prize of ten dollars is awarded to the student who presents the best English poem. The poem must be left with the Professor of English Literature before the annual examinations.

The several committees of award will withhold any prize, if, in their judgment, none of the exercises presented in competition for it possess the requisite merit.

AWARD OF PRIZES, 1913-1914.

The Joseph D. Weeks Prize, to HAROLD ROBERT SMART, 1915.

The Peirce Prize, to FREDERICK HUPMAN HOTCHKISS, 1915.

The Phi Beta Kappa Prize, to PARKER NEWHALL, 1915.

The John Bell Scott Prize, to GEORGE SHELTON HUBBELL, 1916.

Committee of Award—Professor Irville Charles LeCompte, of Yale University.

The Giffin Prize, to WILLIAM GEORGE CHANTER, 1914.

The Weeks Prize, to RUDOLPH WILSON CHAMBERLAIN, 1915.

The Camp Prize, to JOSEPH ANTHONY HOFMANN, JR., 1916.

The Johnston Prize, to KARL SKILLMAN VAN DYKE, 1916.

The Spinney Prize, to WILLIAM HARVEY REEVES, 1916.

The Rice Prize, to GEORGE BARTLETT CURTIS, 1916.

The Walkley Prize, to GEORGE SHELTON HUBBELL, 1916.

The Wise Prize, to RAYMOND AVERY HALL, 1914.

The Prentice Prize, to NOEL EDGAR BENSINGER, 1914.
Committee of Award:—Professor Arthur Hubbell Palmer, of Yale University.

The Sherman Prize, to ROBERT MOFFAT HENRY, 1917.

The Ayres Prize (for 1914–15), to BENJAMIN HEZEKIAH BISSELL, prepared at the Meriden (Conn.) High School.

The Rich Prize, to RALPH GORDON SICKELS, 1914.
Committee of Award:—Felice Ferrero, Ph. D., Seymour C. Loomis, LL. B., and Reverend William DeVerne Beach, B. A., B. D.

The Olin Prize, to RAYMOND TOSTEVIN BOND, 1914.
Committee of Award:—Professor William Lyon Phelps, of Yale University.

The Cole Prize, to GEORGE SHELTON HUBBELL, 1916.

The First Junior Exhibition Prize, to WILLIAM BRADFORD MASKIELL, 1915, and HAROLD RIDEOUT WILLOUGHBY, 1915.
Committee of Award: — Reverend John Francis Nichols, William Walter Wilcox, B. A., and Professor Walter Richard Miles, Ph. D.

The Second Junior Exhibition Prize, to HAROLD ANDREW RICHMOND, 1915.
Committee of Award:—Same as for the First Junior Exhibition Prize.

The Briggs Prize, to HAROLD RIDEOUT WILLOUGHBY, 1915.
Committee of Award:—Francis Asbury Beach, Honorable Frank David Haines, M. A., LL. B., and Professor Robert Herndon Fife, Jr., Ph. D.

The Declamation Prize, to ROLLIN SIMPSON TUTTLE, 1916.
Committee of Award: — Honorable Frank David Haines, M. A., LL. B., Elisha Kent Hubbard, B. A., and Professor Walter Guyton Cady, Ph. D.

The Parker Prize, to HERBERT CHESTER SARGENT, 1916.
Committee of Award:—Same as for the Declamation Prize.

The Hibbard Prize, to FRANCIS WILCOX POTTER, 1917.
Committee of Award:—Same as for the Declamation Prize.

The Taylor Prize, to RAYMOND TOSTEVIN BOND, 1914.

APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The Junior Exhibition is held on the first Tuesday evening in March (March 2, 1915). The speakers, six in number, are selected from the Junior class according to their grade in composition subsequent to the Freshman year, and by means of a special contest in declamation. The selection of speakers for Commencement is determined as follows. Members of the Senior Class seeking appointment to speak at Commencement hand in two essays each; from the sixteen competitors whose work is adjudged to be of the highest merit, eight are selected by means of a contest in declamation.

The speakers last year were:—

JUNIOR EXHIBITION.

Charles Daniel Brodhead,
Rudolph Wilson Chamberlain,
Daniel Ostrander Ferris,
William Bradford Maskiell,
John Wesley Prince,
Harold Andrew Richmond,
Francis Bourne Upham, Jr.,
Harold Rideout Willoughby.

COMMENCEMENT.

George Theron Blydenburgh,
Robert Coleman Brown,
Ralph Olin Dulany,
Raymond Avery Hall,
Harry Knight Miller,
Ralph Gordon Sickels,
Hugh Clark Stuntz,
Francis Albert Sturges.

HONORS IN SCHOLARSHIP.

I. HONORS IN GENERAL SCHOLARSHIP.—Two grades of honor, designated respectively as honors and high honors, are conferred at graduation, based upon the general scholarship of the student throughout his whole course.

An honor in general scholarship is awarded to a student who has received a grade not below third on an aggregate of not less than 56 hours' work, as reckoned in the record of standings, has received first grade on a number of hours' work not less than the part of the 56 hours' work on which he has received third grade, and has not fallen below fourth grade in any study of the course.

A high honor in general scholarship is awarded to a student who has received a grade not below second on an aggregate of not less than 56 hours' work, has received first grade on an aggregate of not less than 46 hours' work, and has not fallen below third grade in any study of the course.

II. PRELIMINARY HONORS. — Preliminary honors are awarded in the departments of classics and of mathematics at the end of the Sophomore or Junior year, and no student can receive special honors at graduation in Greek, Latin, or mathematics who has not previously received the corresponding preliminary honors. Notice of candidacy for preliminary honors must be given to the senior officer of the department, and to the Secretary of the Faculty, as early as the first Monday of the third term of the year in which the candidate intends to present himself for the special examination (April 12, 1915). The case of each candidate is decided by the Faculty. The special regulations concerning the award of preliminary honors are as follows:—

Classics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade, in the following courses:—I., II., and either III. or IV. Greek, and I., I.A, two of Courses II.–V., and any one of Courses VI., XVI., and XVII. in Latin.

2. He must also pass with distinction a special examination, held near the end of the academic year, and designed to test *(a)* his ability to translate Greek and Latin into English at sight, and *(b)* his knowledge of Greek and Latin grammar, and of Greek and Roman antiquities, mythology, and political and literary history.

Mathematics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade, in such courses in mathematics, amounting to not less than nine hours a week, as may be approved by the head of the department.

2. He must pass with distinction a special examination held near the end of the academic year, which may cover the entire field of his mathematical knowledge.

III. HONORS IN SPECIAL DEPARTMENTS AT GRADUATION.—Two grades of special honor, designated respectively as honors and high honors, are awarded at graduation in each of the following departments:—

Latin; Greek; German; Romance Languages; English; History; Economics and Social Science; Philosophy; Mathematics; Physics; Chemistry; Geology; Biology.

The conditions upon which special honors in these departments are awarded are as follows:—

(1) The candidate must apply to the officer in charge of the department in which he desires to take honors, and to the Secretary of the Faculty, not later than the first Monday of the third term in the Junior year (April 12, 1915).

(2) He must pass at the regular or special examinations in such studies of the college course as are prescribed for honors in the several departments in the schedule given below; and in such studies he must not fall below third grade, and must maintain an average standing of second grade after the beginning of the Sophomore year, or must receive first grade in all of the prescribed studies which he takes after the beginning of the Junior year.

(3) In addition to the studies regularly prescribed in the schedule below, the candidate must pursue such a course of collateral reading or investigation as is prescribed by the officer in charge of the department, with the approval of a committee of the Faculty. The evidence of his proficiency in this collateral course is given by an examination, oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as may be prescribed by the officer of the department, with the approval of a committee of the Faculty. The case of each candidate is decided by the Faculty.

(4) In addition to other requirements, every candidate for special honors is required to pass a *general examination* covering the entire field of his knowledge in the department in which the honor is given. This examination is oral, and is conducted in the presence of a committee of the Faculty.

(5) No student is awarded special honors who fails to pass in any study of the last two years of the course.

(6) No examination for special honors is given, and no thesis or other work in preparation for special honors is received, after the second Saturday preceding Commencement (June 12, 1915).

The conditions upon which high special honors are awarded are the same as for special honors, with the addition of the following requirements:—

The candidate must receive first grade in all of the prescribed studies which he takes after the beginning of the Sophomore year, and his examinations and other tests must show an exceptionally clear and comprehensive understanding of the studies of the department, and give promise of capacity for independent work.

The following schedule gives the studies required of candidates for special honors in the several departments:—

Latin.—1. So many of the courses in Latin as will amount in the aggregate to not less than sixteen hours a week.

2. Courses I., II., and either III. or IV., in Greek.

[Candidates for special honors in Latin at graduation are requested to announce their candidacy as early as the beginning of the Junior year.]

Greek. — 1. Courses I.–VII. in Greek, and not less than three hours in courses approved by the Committee on Special Honors.

2. Courses I., I.A, and two of Courses II.–V., in Latin.

German.—1. Courses I.–IV., IX.–XII., and one of Courses V., VI., and VII., in German.

2. Courses I. and II. in French.

3. Course I. in English literature, or Course V. in English language.

Romance Languages.—1. Courses I.–VI. in French, and any two other courses in Romance languages.

2. Courses I. and II. in German.

English.—1. The required courses in English, including composition.

2. One of the following groups of elective courses:—

(a) Five courses in English literature; Course IV. or Course V. in English language; two courses in French, or two courses in German.

(b) Four courses in English language; two courses in English literature; two courses in German and one course in French, or two courses in French and one course in German.

History.—1. All the courses in history.

2. Any three courses in economics and social science.

Economics and Social Science.—1. All the courses in economics and social science.

2. Course I., and either Course VII. or Course VIII., in history.

Philosophy.—1. All the courses in philosophy.

2. Courses I., II., and VI. in ethics and the philosophy of religion.

3. Courses I. and III. in psychology.

Mathematics.—1. Courses in mathematics and astronomy amounting in the aggregate to not less than nineteen hours a week.

2. Course I. in physics.

[Prospective candidates for special honors in mathematics at graduation are advised to take Course VII. in mathematics in the Sophomore year.]

Physics.—1. Course I. in physics.

2. Two years of practical physics, amounting in the aggregate to not less than five hours a week.

3. Not less than the equivalent of nine hours per week for a year, chosen from Courses III., IV., V., VI., VII., IX., and X. in physics, and Course XIII. in mathematics.

4. Courses I. and II. in chemistry.

5. Course VII. in mathematics.

Chemistry.—1. Courses I.–III., IV. (three periods), V., XIV., and XV. in chemistry.

2. *(a)* Courses VIII., X., and XI. in chemistry, Course I. in physics, and one year of practical physics; or *(b)* Courses IV. (a fourth period), VI., and XII. in chemistry, and Courses IV. and VIII. in biology.

Geology.—1. Courses I.–VI. in geology.

2. The course in descriptive astronomy.

3. Courses II. and III. in biology.

4. Not less than two of the following courses:—V., VIII., and IX. in biology, II. and III. in chemistry, and IV. in physics.

Biology.—1. Courses I.–IV. in biology.

2. Two years of practical biology (in at least one of which there shall be three exercises a week).

3. Courses I. and II. in geology.

4. Course I. in chemistry.

5. Either Courses II. and III. in chemistry, or Course IV. in geology.

[Candidates for special honors in biology are recommended to take at least one summer course in a marine laboratory.]

In all cases in which the foregoing schedule allows option between two or more courses or groups of courses, the student's selection is subject to the approval of the head of the department in which he desires to take honors.

In special cases a candidate for honors may be allowed to substitute other courses for those named in the foregoing schedule, by vote of the Faculty, on recommendation of the head of the department.

An honor of any of the kinds and grades mentioned may be conferred on a student sufficiently meritorious, by vote of the Faculty, even though his record of standing does not completely fulfill the requirements stated above.

The names of those students who take preliminary honors are announced at the public service held in Memorial Chapel on the Monday preceding Commencement (June 21, 1915).

The names of students who take honors at graduation, whether general or special, are printed on the Commencement program.

AWARD OF HONORS.

COMMENCEMENT, 1914.

HONORS IN GENERAL SCHOLARSHIP.

HIGH HONORS.

Noel Edgar Bensinger,
Raymond Tostevin Bond,
William George Chanter,
Joshua Collett Frost,
Brewster Hawkins Jones,
Richard Alfred Rossiter.

HONORS.

John Henry Amy,
John Earle Blossom,
George Theron Blydenburgh,
Ralph Ira Booth,
Robert Coleman Brown,
Ernest Putnam Clark,
Ralph Olin Dulany,
Raymond Avery Hall,
Richard Miner Hewitt,
James Stephen Kellom,
Arthur Fiske Potter,
Harold Purcell Winchester.

HONORS IN SPECIAL DEPARTMENTS.

HIGH HONORS.

GREEK.

BREWSTER HAWKINS JONES. Thesis: "Homer's Iliad—Plot and Delineation of Characters."

GERMAN.

NOEL EDGAR BENSINGER. Thesis: "Grillparzer's Fairy Dramas."

HONORS.

GREEK.

ALBERT SEARS PRUDEN. Thesis: "A Study of the Plots of Sophocles."

ENGLISH.

RAYMOND TOSTEVIN BOND. Thesis: "Browning's Literary Art—Merits and Defects."

RAYMOND AVERY HALL. Thesis: "The Personality of Hazlitt as seen in his Writings."

RICHARD MINER HEWITT. Thesis: "A Study of the Style of Hazlitt."

PSYCHOLOGY.

FLOYD ALONZO STEVENS. Thesis: "The Attack in Singing."

MATHEMATICS.

RALPH IRA BOOTH. Thesis: "The Mathematics of Statistics, with an Application to a Problem in Astrophysics."

DEGREES.

The following degrees are conferred by the University in course: Bachelor of Arts (B. A.), Bachelor of Science (B. S.), Master of Arts (M. A.), Master of Science (M. S.).

THE BACHELOR'S DEGREE.—The degrees of Bachelor of Arts and of Bachelor of Science are conferred on those who have met the requirements for admission to the respective courses as set forth on page 33, and have taken the required quota of studies in college, as prescribed on pages 104–106.

The baccalaureate degree is awarded *summa cum laude* to a student who takes high honors both in general scholarship and in one or more departments; *magna cum laude*, to a student who takes a high honor either in general scholarship or in one or more departments; *cum laude*, to a student who takes an honor either in general scholarship or in one or more departments.

THE MASTER'S DEGREE.—The degrees of Master of Arts and of Master of Science are conferred in accordance with the following regulations:—

1. The degree of Master of Arts is conferred upon Bachelors of Arts of Wesleyan University, of at least one year's standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued in residence for a period of not less than one year.* This course of study is under the

* Candidates for the Bachelor's degree who satisfy the requirements for honors in general scholarship may in their Senior year be admitted to candidacy for the Master's degree, provided that the amount of their undergraduate work remaining to be completed at the close of the September special examinations does not exceed three hours. Except by express permission of the Committee on Graduate Instruction, their undergraduate work must satisfy the group requirement in such manner that they are free to elect the remaining three hours in the department or departments in which they intend to do graduate work. Such candidates shall not be members of any athletic or debating teams, musical or dramatic organizations, or take part in any similar undergraduate activity. This rule, however, does not necessarily debar them from competing for any prize for which they would be eligible as undergraduates. The entire work of these candidates is under the direction of the Committee on Graduate Instruction. The Master's degree will not be conferred upon them until the Commencement succeeding that at which the Bachelor's degree has been conferred.

full direction of the Committee of the Faculty on Graduate Instruction, composed of three permanent members with the addition of the instructor in charge of each department in which the candidate pursues work.

Bachelors of Philosophy of Wesleyan University who apply for the Master's degree are eligible for the degree of Master of Arts.

2. In the case of Bachelors of Arts of other colleges whose course of study is accepted by the Committee on Graduate Instruction, or who pass such additional examinations as the Committee may prescribe, the degree of Master of Arts is conferred on the conditions prescribed in the case of Bachelors of Arts of Wesleyan University.

3. The degree of Master of Science is conferred upon Bachelors of Science of Wesleyan University, and upon graduates of other colleges holding an equivalent degree, under the same conditions which govern in the case of the degree of Master of Arts.

4. Bachelors of Science of Wesleyan University, and graduates of other colleges holding a Bachelor's degree other than that of Bachelor of Arts, who pass such examinations in Greek or Latin, and in other literary studies, as the Committee on Graduate Instruction may prescribe, are admitted to the degree of Master of Arts on the conditions prescribed in the case of Bachelors of Arts.

5. A fee of five dollars (payable to the Secretary of the Committee) is required of every candidate for the Master's degree at his enrolment; and a fee of ten dollars (payable to the Assistant Treasurer of the University) is required when the degree is conferred.

6. Evidence of the candidate's proficiency in the approved course of study is given in one or more of the following ways, as the Committee may prescribe: *(a)* by examinations, oral or written; *(b)* by a thesis; *(c)* by the exhibition of scientific specimens, preparations, or processes. All such tests of proficiency are under the direction of the Committee, and they report to the Faculty proper candidates for the degree.

In addition to these regulations of the Trustees, the Committee on Graduate Instruction has from time to time adopted

standing rules of procedure, among which the following should be noted as specially important:—

Whatever other tests of proficiency may be prescribed, each candidate for the Master's degree is required to pass an oral examination in the presence of the Committee, upon the whole, or a previously specified part, of his course of study.

All examinations of candidates for the Master's degree are conducted at the University.

Unless the Committee, for important reasons, determines otherwise in some specific case, no examinations will be given (except in regular college courses), and no thesis or other work prescribed in preparation for the degree will be received, later than the second Saturday before Commencement in the academic year in which the candidate desires to be recommended for the degree (June 12, 1915).

A complete statement of these rules may be obtained by applying to the Secretary of the Committee on Graduate Instruction (in care of the Office of the University, South College), to whom also all communications from prospective candidates should, in the first instance, be addressed.

DEGREES CONFERRED, JUNE 17, 1914.

DEGREES IN COURSE.

The Degree of Bachelor of Arts was conferred on:

Alonzo Clark Allen,
Vincent Blake Allison,
John Henry Amy,
Noel Edgar Bensinger,
Edward Wayt Bishop,
John Earle Blossom,
Raymond Tostevin Bond,
Robert Coleman Brown,
William Warren Carman, Jr.,
William George Chanter,
Silas Skidmore Clark,
Walter Erskine Cooley,
Howard Reid Craig,
John Franklin Day,
Ernest Raymond Dodge,
William Munroe Dox,
Ralph Olin Dulany,
Victor Fellini,
John Edwin Fisher,
Joseph Aloysius Francis,
Joshua Collett Frost,
Randolph Foster Glenn,
Raymond Avery Hall,
Raymond Vincent Hayward,
Richard Miner Hewitt,
Ira Vaughan Hiscock,
Robert Porter Holden,
John Robert Holmes,
Albert Hyde Holt,
Harold Laurence Irving,
Brewster Hawkins Jones,
John Sibbits Keir,
Walter William Kohler,
Henry Rudolph Konrad,
Esdras Howell Lowry,
Howard Spencer MacKirdy,
Manuel Matienzo,
Harry Knight Miller,
Lynn Smith Miller,
George Lankton Moore,
Arthur Fiske Potter,
Albert Sears Pruden,
John Reeder Reeves,
Wilfred Slater Robinson,
George Miles Rogers,
Richard Alfred Rossiter,
Kendall Ainsworth Sanderson,
Eugene Wesley Scarborough,
Peter Adam Schneider,
Ralph Gordon Sickels,
Floyd Alonzo Stevens,
Hugh Clark Stuntz,
Francis Albert Sturges,
Randall Jay Thurrell,
Ransom Ernest Wilcox,
Melville Soule Wilding,
Harold Purcell Winchester,
Harold Abbott Wooster.

The Degree of Bachelor of Science was conferred on:

Clinton David Abraham,
Eli Allison,
Ralph Chesney Bishop,
George Theron Blydenburgh,
Ralph Ira Booth,
Frank Bonyman Cawley,
Ernest Putnam Clark,
William Bethel Cornish,
Edwin Markwick Eustis,
George Frederick Freifeld,
Warren Clark Fuller,
Russell Irving Garton,
Charles Albert Goodwin,
Hawthorne Parker Halvorson,
Harry Eugene Harris,
James Blood Hasselman,
Ira Davis Joel,
James Stephen Kellom,
Lawrence Beatty Morse,
Herndon Tudor Morsell,
Leroy Beaumont Noble,
Herbert Langdon Pratt,
Harold Blake Robertson,
John Irving Rowell,
Rodman Moulton Steeb,
Stewart Niven Storms,
William Harry Sutton,
Norman Thirkield,
Frederick William Trevithick,
Henry Hyde True,
Allen Dodge Wheeler, Jr.,
Hiram Walter Young.

The Degree of Master of Arts on examination was conferred on:

Paul Burt, B.A., 1913. Subject: History. Thesis: "The Condition of Italy in 1789, on the Eve of the French Revolution."

Eugene Shepard Clark, B. A., 1913. Subjects: French, Spanish, and English. Thesis: "Le Romantisme Français."

Robert Warren Conover, B. A., 1911. Subject: English. Thesis: "John Ruskin as a Social Reformer."

Robert Ellsworth Harned, B. A., 1899. Subject: English. Thesis: "Some of Ruskin's Social Teachings."

Carl Kempton Hill, B. A., 1913. Subject: English. Thesis: "Contemporary Criticism of Wordsworth and Keats during the years 1800–1830."

Perry Sherman Howe, B. A., 1903. Subjects: History, English. Thesis: "The Baronage or Nobility of England, 1066–1485."

Mildred Allen Tyler, B. A. (Smith), 1913. Subjects: Latin, Greek. Thesis: "The Stoic Element in Cicero's Academics and Tusculan Disputations."

HONORARY DEGREES.

The Degree of Master of Arts was conferred on:

Gaylord William Douglass, B. A., 1900, Principal of Wilbraham Academy.
Frank David Haines, State's Attorney of Middlesex County.
Lyon Levi Norton, B. A., 1890.

The Degree of Doctor of Divinity was conferred on:

John Gowdy, B. A., 1897.
John William Langdale, B. A., 1903.
Leon Kurtz Willman, B. A., 1897.

The Degree of Doctor of Science was conferred on:

Walter Parke Bradley, Professor of Chemistry, 1893–1914.

The Degree of Doctor of Humane Letters was conferred on:

Stockton Axson, B. A., 1890, Professor of English Literature, Rice Institute.

The Degree of Doctor of Laws was conferred on:

George Preston Mains, B. A., 1870.

PUBLICATIONS.

ALUMNI RECORD.—Through the liberality of Orange Judd, M. A., a Biographical Record of the Alumni of the University was published in 1869. A fourth edition of this Record, revised and corrected, was issued in June, 1911. This edition contains not only the record of alumni, revised and corrected to the date of publication, but also a list of all former students not graduates, with their residences, and such other information with reference to them as the most thorough search could obtain. It includes also a brief account of the honorary alumni and the members of the Faculty not graduates of Wesleyan. Copies of this edition may be had upon application to the librarian, W. J. James. The price of the Record, postage prepaid, is $2.00 (paper), $2.50 (cloth).

Information in regard to changes of address of alumni or non-graduates, or in regard to any other facts suitable for future editions of the Record, is earnestly solicited. All who can furnish such information are requested to communicate with Professor F. W. Nicolson, Secretary of the Faculty.

WESLEY BICENTENNIAL.—A memorial volume was issued early in 1904 containing a full record of the celebration of the bicentennial anniversary of the birth of John Wesley by Wesleyan University at the Commencement of 1903. The book was printed by Theo. L. DeVinne & Co., of New York. It contains over 250 pages, and includes a general account of the celebration, the full text of all the addresses delivered, and an appendix giving the names of all committees, of the invited guests who were present, of all recipients of degrees, honorary and in course, and of nearly six hundred alumni who attended the celebration. It is illustrated also with several pictures of the college buildings and grounds, with two excellent portraits of John Wesley, and with portraits of the principal speakers. Applications for the memorial

volume should be sent to the Librarian of Wesleyan University. Price $1.50, postage prepaid.

SEVENTY-FIFTH ANNIVERSARY.—A memorial volume, descriptive of the celebration of the seventy-fifth anniversary of the founding of Wesleyan University, held during the Commencement week of 1906, was published in June, 1907. The volume contains a full account of all the proceedings, including the text of all the addresses, a list of the alumni attending the celebration, a list of degrees conferred, etc., and is illustrated with pictures relating to the history of the University. The historical address by Professor William North Rice and the pictures of the college, old and new, are of peculiar interest to all former students. The volume is published in a form in keeping with the interesting and valuable record it contains. Applications for the memorial volume should be sent to the Librarian of Wesleyan University. Price $1.00, postage prepaid.

INSTALLATION VOLUME.—A volume entitled The Installation of William Arnold Shanklin, L. H. D., LL. D., as Ninth President of Wesleyan University, was published in 1910. Besides an introductory account of the exercises, the book contains a verbatim report of all the speeches delivered at the various exercises of the day, reproductions of all programs and other printed matter connected with the occasion, and lists of the trustees, Faculty, delegates, invited guests, and alumni who were in attendance. A portrait of President Shanklin forms the frontispiece. The volume contains 154 pages and is neatly bound in dark red cloth. Copies may be obtained from the Librarian of the University at one dollar each.

BULLETIN.—The *Bulletin* was first issued in 1888, and has since been published twice a year (usually in May and December), under the direction of a committee of the Faculty. It contains accounts of trustee and alumni meetings, lists of recent gifts, statements of the most urgent needs of the University, changes in the Faculty and courses of study, department notes, and various other matters of interest to the alumni and friends of the institution. It is sent to the trustees and alumni, and may be obtained by other friends of the University upon application to the Secretary of the Faculty.

PICTURE OF THE COLLEGE.—A photogravure in sepia, fifteen by twenty-eight inches, showing the college campus and most of the college and fraternity buildings, has been published by W. T. Littig & Co., of New York. The college has a number of copies of the picture for sale to alumni and others. Price $5.00 each. Orders should be sent to Professor F. W. Nicolson, Secretary of the Faculty.

NECROLOGY.—A list of deceased graduates of the University is published annually in the Spring *Bulletin*. All persons who can supply information for future lists are urgently requested to communicate the same to Professor F. W. Nicolson, Secretary of the Faculty.

THE ALUMNI COUNCIL.

The Alumni Council is composed of representatives elected by the thirty-five classes last graduated, and of ten members at large, elected by the Council, none of whom may be members of the Board of Trustees or of the Faculty of Wesleyan.

This basis of organization makes the Council fairly representative of the entire body of the alumni and, at the same time, gives it a distinctive character, naturally sympathetic with the administration and with the undergraduates, yet independent of both, and with a view-point of its own.

The object of the organization is to strengthen the relations of the alumni and the University, and to bring all Wesleyan graduates and non-graduates into one compact body working for the interests of the institution.

The Council maintains an office in Room 2, East Hall, with an efficient equipment at the service of the alumni, and headquarters at 38 Bleecker Street, New York, N. Y., thus providing a ready means of communication among the alumni themselves, and between the alumni, the undergraduates, and the authorities of the college.

EMPLOYMENT BUREAUS.

An employment bureau is maintained in the office of the Secretary of the Faculty, for the purpose of securing positions as teachers for graduates of the college. Those who wish to avail themselves of the opportunity thus offered are invited to register; and the alumni and friends of the college are urgently requested to inform the Secretary of any vacancy coming to their notice which might be filled by a Wesleyan graduate.

An employment bureau is maintained by the Young Men's Christian Association through which needy undergraduates are aided in securing employment during the college year and the summer vacation. Those who wish to avail themselves of this opportunity are invited to register. Alumni and friends of the college are requested to inform the General Secretary of any vacant positions which might be filled by Wesleyan men. No fees are charged in either bureau.

ALUMNI ASSOCIATIONS.

ALUMNI COUNCIL.

Chairman—Augustus Burr Carrington, '76, New York, N. Y.
Secretary—Warren French Sheldon, '99, Middletown.

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Corresponding Secretary—William John James, '83, Middletown.

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Secretary—Walter Creighton Brown, '03, 95 Milk St., Boston, Mass.

WESLEYAN UNIVERSITY CLUB OF NEW YORK.

President—Fredric Worthen Frost, '94, New York, N. Y.
Secretary—Frederic Louis Maxim, '09, 584 W. 183rd St., New York, N. Y.

WESLEYAN UNIVERSITY ALUMNI CLUB OF NORTHEASTERN PENNSYLVANIA.

President—Ralph Walter Rymer, '00, Scranton, Pa.
Secretary—Wesley Morton Davis, '11, 153 South Maple Ave., Kingston, Pa.

WESLEYAN ALUMNI ASSOCIATION OF NEWARK AND VICINITY.

President—Albert Barrett Meredith, '95, Plainfield, N. J.
Secretary—Anton Frederick Haus, '12, 330 Elizabeth Ave., Elizabeth, N. J.

PHILADELPHIA WESLEYAN ALUMNI ASSOCIATION.

President—Charles Scott, Jr., '86, Philadelphia, Pa.
Secretary—Frank Chaplain Brodhead, '11, 201 Mulberry St., Bristol, Pa.

WESLEYAN ALUMNI ASSOCIATION OF THE MIDDLE WEST.

President—Merle Bowman Waltz, '95, Chicago, Ill.
Secretary—Carl Roland Yanson, ex-'08, 10 South La Salle St., Chicago, Ill.

WESLEYAN ALUMNI CLUB OF SOUTHERN CALIFORNIA.

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Secretary—Ernest Perley Clarke, '85, Riverside, Cal.

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President—Charles Dayton Woods, '80, Orono, Me.
Secretary—William Ernest Leighton, '09, 36 Vesper St., Portland, Me.

WESLEYAN ALUMNI ASSOCIATION OF WASHINGTON, D. C.

President—Martin Augustine Knapp, '68, Washington, D. C.
Secretary—George Wood Vinal, '06, Bureau of Standards, Washington, D. C.

WESLEYAN ALUMNI CLUB OF EASTERN NEW YORK.

President—Robert Edwin Nivison, '00, Schenectady, N. Y.
Secretary—Leon Hilliard Curtice, '08, General Electric Co., Schenectady, N. Y.

WESLEYAN ALUMNI CLUB OF WATERBURY.

President—William Percival Ogden, '01, Waterbury.
Secretary—George Albert Williams, ex-'97, Waterbury.

WESLEYAN ALUMNI CLUB OF WESTERN NEW YORK.

President—William Burt, '79, Buffalo, N. Y.
Secretary—Raymond Lee Moore, '12, Y. M. C. A., Buffalo, N. Y.

WESLEYAN ALUMNI CLUB OF DETROIT.

President—Frederick Wright Robbins, '80, Detroit, Mich.
Secretary—Charles Albert Goodwin, '14, Y. M. C. A., Detroit, Mich.

WESLEYAN ALUMNI CLUB OF CINCINNATI.

President—Levi Gilbert, '74, Cincinnati, Ohio.
Secretary—Ralph Welles Keeler, '04, 220 W. 4th St., Cincinnati, Ohio.

CALENDAR.

1914.

Sept. 24. Thursday, 9 A. M.—First term begins.
Nov. 25–27. Thanksgiving recess.
Dec. 22. Tuesday—First term ends.
Last day for presenting applications for winter special examinations.

CHRISTMAS RECESS.

1915.

Jan. 6. Wednesday—Second term begins.
Jan. 25–Feb. 6. Mid-year examinations.
Feb. 20. Saturday—Last day for presenting Junior Exhibition essays.
Feb. 22. Monday—Washington's Birthday, a holiday.
Mar. 2. Tuesday—Junior Exhibition.
Mar. 30. Tuesday—Second term ends.
Last day for presenting applications for spring special examinations.

SPRING RECESS.

April 7. Wednesday—Third term begins.
April 12. Monday—Last day for presenting Olin Prize essays.
April 12. Monday—Last day for presenting applications for preliminary and special honors.
May 15. Saturday—Last day for presenting Joseph D. Weeks Prize essays.
May 17. Monday—Last day for presenting Giffin Prize essays.
May 25. Tuesday—Prize declamation contest.
May 30. Sunday—Memorial Day.
June 4. Friday—Annual examinations begin.
June 12. Saturday—Last day for presenting special honor theses, and for special honor examinations.

June 12. Saturday—Last day for presenting Masters' theses, and for examinations for the Master's degree.
June 14–19. Examinations of College Entrance Examination Board.
June 15. Tuesday—Last day for presenting Rich Prize essays.
June 20. Sunday morning—Baccalaureate sermon.
June 20. Sunday evening—University sermon.
June 21. Monday morning—Business meeting of the Phi Beta Kappa Society.
June 21. Monday morning—Announcement of award of prizes and of preliminary honors.
June 21. Monday afternoon—Class Day.
June 21. Monday evening—Meeting of the Board of Trustees.
June 22. Tuesday morning—Meeting of the Board of Trustees.
June 22. Tuesday morning—Business meeting of the Alumni Association.
June 22. Tuesday afternoon—Social receptions by the college fraternities.
June 23. Wednesday—COMMENCEMENT.

VACATION OF THIRTEEN WEEKS.

Sept. 21. Tuesday—Fall special examinations begin.
Sept. 22–23. Examination of candidates for admission.
Sept. 23. Thursday, 9 A. M.—First term begins.

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CALENDAR

1915

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GRADUATE SCHOOL

Vol. 9 NOVEMBER, 1915 No. 3

THE

WESLEYAN UNIVERSITY BULLETIN

CATALOGUE NUMBER

1915-1916

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PELTON & KING, INC., PRINTERS AND BOOKBINDERS
1915

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1915-1916

MIDDLETOWN, CONN.
MCMXV

THE WESLEYAN UNIVERSITY BULLETIN

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(Member ex officio), Middletown.

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Carl Leslie Eaton,	*Waltham, Mass.*	*Eclectic House.*
† William Ramsay Edmonds,	*Elizabeth, N. J.*	Ψ. Υ. *House.*
Maurice Millett Edwards,	*Methuen, Mass.*	*Commons Club.*
† Albert Arnold Elsey,	*West Philadelphia, Pa.*	X. Ψ. *Lodge.*
† Julian Griffin Ely,	*Hamburg.*	B. Θ. Π. *House.*

NAMES.	RESIDENCES.	ROOMS.
Alexander Wilson Greer,	*Ridgefield.*	*Commons Club.*
† James Vernon Gridley,	*Paterson, N. J.*	B. Θ. Π. *House.*
† Joel Wright Hadley,	*Indianapolis, Ind.*	Ψ. Υ. *House.*
† Oscar Francis Haffner,	*Gloversville, N. Y.*	Ω. Φ. *House.*
† James Hale,	*Springfield, Mass.*	A. Δ. Φ. *House.*
† Frank Austin Hamilton,	*New Bedford, Mass.*	A. X. P. *House.*
Henry Martyn Harman,	*New Rochelle, N. Y.*	Ψ. Υ. *House.*
Robert Moffat Henry,	*Clark's Summit, Pa.*	*Commons Club.*
Nahor Yard Hill,	*Morristown, Tenn.*	*Eclectic House.*
Samuel Prentice Hopley,	*Hartford.*	*Commons Club.*
Frank Willard Johnson,	*Long Island City, N. Y.*	Δ. Τ. Δ. *House.*
George Frederick Johnson,	*Riverside, N. J.*	6 S. C.
Warren Irving Keith,	*South Manchester.*	A. X. P. *House.*
Kristen Kristensen,	*Gundtoft, Denmark.*	B. Θ. Π. *House.*
† Lester A. Lanning,	*Harvard, Ill.*	Δ. Τ. Δ. *House.*
† Marshall Grant Lee,	*Pasadena, Cal.*	A. Δ. Φ. *House.*
Ralph Morgan Lewis,	*Pottsville, Pa.*	*Commons Club.*
† Albert Ferdinand Lindstrom,	*Nutley, N. J.*	Ψ. Υ. *House.*
Sayre Paul Maddock,	*Sayre, Pa.*	*Commons Club.*
Raymond Lewis Martin,	*Barre, Vt.*	*305 William St.*
Albert Charles Merriam,	*Woodmont.*	B. Θ. Π. *House.*
Frank Willard Morrell,	*New York, N. Y.*	Χ. Ψ. *Lodge.*
Gorham Bert Munson,	*New Haven.*	Δ. Κ. Ε. *House.*
Francis Osborn Noble,	*Schenectady, N. Y.*	A. Δ. Φ. *House.*
Charles Leroy Northridge,	*Worcester, Mass.*	B. Θ. Π. *House.*
† Clifford Clark Payson,	*Westville.*	B. Θ. Π. *House.*
Ernest Ralph Perkins,	*Tilton, N. H.*	*Commons Club.*
† Francis Wilbur Pettengill,	*Ellsworth, Me.*	46 N. C.
† Edwin Morgan Pickop,	*Kensington.*	*Kensington.*
John Theodore Plate,	*Elizabeth, N. J.*	Δ. Τ. Δ. *House.*
Francis Wilcox Potter,	*Portland.*	A. X. P. *House.*
George Reuben Potter,	*Fitchburg, Mass.*	Δ. Τ. Δ. *House.*
Robert Fulton Raymond, Jr.,	*Newton Centre, Mass.*	Ψ. Υ. *House.*
† Earle Edmunds Richardson,	*Rumford, Me.*	6 S. C.
† Max Ruderman,	*Middletown.*	*49 Hubbard St.*
† Charles William Seeholzer,	*Wappingers Falls, N. Y.*	75 N. C.
† George Warner Skilton,	*Thomaston.*	18 E. H.
† Charles Stewart Smith,	*Stamford.*	A. Δ. Φ. *House.*

NAMES.	RESIDENCES.	ROOMS.
Carl Leo Stearns,	*Westbrook, Me.*	*Commons Club.*
† John Allen Stephens, Jr.,	*Albany, N. Y.*	Δ. K. E. *House.*
Frank Edward Stevens,	*Lexington, Okla.*	Ψ. Υ. *House.*
Henry Charles Stone,	*Hartford.*	15 E. H.
† George Elwood Stookey,	*Cambra, Pa.*	B. Θ. Π. *House.*
† John Russell Studwell,	*Greenwich.*	Δ. T. Δ. *House.*
† Walter Richard Talbot,	*Newark, N. J.*	*Eclectic House.*
Linford Alexander Thomas,	*Canterbury, Del.*	A. X. P. *House.*
† Mehran Kafafian Thomson,	*Paterson, N. J.*	*553 Main St., Portland.*
† Harry Morgan Tiebout,	*Brooklyn, N. Y.*	A. X. P. *House.*
Charles Powell Townsend,	*Milton, N. Y.*	*Eclectic House.*
† Farrant Lewis Turner,	*Honolulu, Hawaii.*	Ψ. Υ. *House.*
† Frank Trelease Underhill,	*Jersey City, N. J.*	*Eclectic House.*
† Charles Laurence Uniacke,	*Wallingford.*	*57 Pine St.*
James Vincent Walsh,	*Middletown.*	*82 Hubbard St.*
† Malvern Paul Westcott,	*Chews Landing, N. J.*	X. Ψ. *Lodge.*
† Harold Wilkinson,	*Middletown.*	*11 Babcock St.*
† Otho Cheney Williams,	*West Corinth, Vt.*	*Commons Club.*
Weir Williams,	*Evanston, Ill.*	A. Δ. Φ. *House.*
Edwin Henry Witman,	*Berwick, Pa.*	Δ. K. E. *House.*
Truman Hollis Woodward,	*Rockville.*	*57 Pine St.*
† Leslie George Wright,	*Bristol.*	*107 Cross St.*

SOPHOMORES—CLASS OF 1918.

NAMES.	RESIDENCES.	ROOMS.
† Alan Chichester Abeel,	*New York, N. Y.*	74 N. C.
† Horace Mills Abrams,	*Albany, N. Y.*	X. Ψ. *Lodge.*
Samuel Spofford Ackerly,	*Brooklyn, N. Y.*	X. Ψ. *Lodge.*
† Samuel Franklin Adams,	*Jersey City, N. J.*	23 N. C.
† Leslie Adamson,	*West New Brighton, N. Y.*	Ω. Φ. *House.*
† Edwin Carl Anderson,	*Suncook, N. H.*	94 N. C.
† Theodore Arter,	*Youngstown, O.*	5 N. C.
Harley Frank Atwood,	*Glens Falls, N. Y.*	*Eclectic House.*
† Raymond Charles Baker,	*Jermyn, Pa.*	B. Θ. Π. *House.*
† Fred Bingham Barrows,	*Ayer, Mass.*	17 E. H.
† Paul Adams Bassett,	*Springfield Gardens, N. Y.*	95 N. C.
† Adolph Frederick Becker, Jr.,	*Hartford.*	1 N. C.
† Paul Russell Bellows,	*N. Grosvenordale.*	*15 Brainerd Ave.*
Benjamin Hezekiah Bissell,	*Meriden.*	51 N. C.
† Andrew John Blackmore,	*Barre, Vt.*	*305 William St.*
Everett Buell Blake,	*Evanston, Ill.*	A. X. P. *House.*
Charles Martin Boswell, Jr.,	*Philadelphia, Pa.*	Ψ. Υ. *House.*
Lahman Van Hennigar Bower,	*Milwaukee, Wis.*	A. Δ. Φ. *House.*
Robert Driscoll Boyle,	*Flushing, N. Y.*	Δ. K. E. *House.*
Lester Ray Bradbury,	*Bridgeport.*	A. Δ. Φ. *House.*
† Robert Weldon Brooks,	*Wallingford.*	69 N. C.
† Foster Lewis Burgess,	*Moosup.*	36 N. C.
John Burisch,	*Elizabeth, N. J.*	29 N. C.
† Austin Earle Calkins,	*Roselle, N. J.*	B. Θ. Π. *House.*
† John Elmer Cavelti,	*Stratford.*	36 N. C.
William Michael Citron,	*Middletown.*	*536 Main St.*
Paul Douglas Compton,	*Poughkeepsie, N. Y.*	Δ. T. Δ. *House.*
Frederick J. Cox,	*Painesdale, Mich.*	*299 College St.*
† Paul Frederick Craig,	*Springfield, Mass.*	B. Θ. Π. *House.*
Howard Peirce Davis,	*Houlton, Me.*	3 N. C.
† William Whitman Deacon,	*Strasburg, Pa.*	48 N. C.
Joseph Vincent Dempsey,	*Middletown.*	*301 College St.*
† James Edward Dooley,	*Middletown.*	*166 Cross St.*
† Wendell Jay Dunstan,	*Spokane, Wash.*	39 N. C.

NAMES.	RESIDENCES.	ROOMS.
† Arthur Nisbett Eagles, Jr.,	*Newark, N. J.*	48 N. C.
† Paul Frederick Eckstorm,	*Brewer, Me.*	35 N. C.
† Edwin Day Elliot,	*Nutley, N. J.*	Ψ. Υ. *House.*
† Richard Travis Elliott,	*Comanche, Ia.*	*169 S. Main St.*
Sherman Christie Ellis,	*Springfield, Mass.*	X. Ψ. *Lodge.*
Lynwood King Elmore,	*Burnside.*	88 N. C.
Herbert Benson Finnegan,	*South Manchester.*	Ψ. Υ. *House.*
Bertram Charles Froidevaux,	*Collinsville.*	*Commons Club.*
Enoch Doble Fuller,	*Hanover, N. H.*	Δ. Τ. Δ. *House.*
† Gerald Meade Gantz,	*Leonia, N. J.*	*Eclectic House.*
Emanuel Lawrence Gebauer,	*Henderson, Ky.*	54 N. C.
John Gray Glenn,	*Tyrone, Pa.*	13 N. C.
Lloyd Shepard Grant,	*East Windsor Hill.*	Δ. Κ. Ε. *House.*
Harry Mills Grinton,	*New York, N. Y.*	Β. Θ. Π. *House.*
Theodore James Grippin,	*Saratoga Springs, N. Y.*	94 N. C.
Robert Darius Guinn,	*Hawley, Pa.*	64 N. C.
Warren Haines,	*Portland.*	*108 Lawn Ave.*
† Watson Munroe Hannan,	*Madison, N. J.*	Ψ. Υ. *House.*
Ragnar Hanson,	*Middletown.*	*86 Church St.*
† Harold George Harman,	*Hartford.*	Δ. Τ. Δ. *House.*
Frank Douglas Harris,	*Middletown.*	*80 High St.*
Coleridge Wells Hart,	*Peekskill, N. Y.*	Α. Δ. Φ. *House.*
Aubrey Cresson Davis Hartman,	*E. Downington, Pa.*	Β. Θ. Π. *House.*
Robert Gray Hartsock,	*Carbondale, Pa.*	14 O. H.
Edwin Roy Holden,	*Hackettstown, N. J.*	*17 Broad St.*
† William Duran Holman,	*South Manchester.*	Ψ. Υ. *House.*
Albert Asa Houck,	*Elmira, N. Y.*	*240 College St.*
† Garry de Neuville Hough, Jr.,	*New Bedford, Mass.*	Β. Θ. Π. *House.*
† George Brigden Hulse,	*Newark, N. J.*	101 N. C.
† William Joseph Hurley,	*Portland.*	*Portland.*
Mitchell Jenkins,	*Wilkes-Barre, Pa.*	*Eclectic House.*
Franklin Milton Johnson,	*Washington, D. C.*	Ψ. Υ. *House.*
† Ralph Edward Jones,	*West Somerville, Mass.*	Δ. Τ. Δ. *House.*
† Reese Pughe Jones,	*Utica, N. Y.*	Ψ. Υ. *House.*
† Harold Dean Krafft,	*Minneapolis, Minn.*	X. Ψ. *Lodge.*
† Gerald Penfield Kynett,	*West Philadelphia, Pa.*	Ψ. Υ. *House.*
† Austin Witter Lane,	*East Orange, N. J.*	41 N. C.
† Wilson Davis Langley,	*Schenectady, N. Y.*	88 N. C.

NAMES.	RESIDENCES.	ROOMS.
George Raymond Larkin,	*Pittsfield, Mass.*	62 N. C.
Clifford Bronson Lehmann,	*Brooklyn, N. Y.*	76 N. C.
† Cheung Tsuen Lei,	*Sunning, Canton, China.*	86 N. C.
† Donald Cooper Lewis,	*New York, N. Y.*	85 N. C.
† Morgan Noulton Lewis,	*Bridgeport.*	85 N. C.
† Harold Whittier Lidstone,	*Caribou, Me.*	*68 Home Ave.*
† Harry Edwin Lindsey,	*Rochelle, Ill.*	Ω. Φ. *House.*
Elliott Colby Logan,	*Bridgeport.*	18 N. C.
William Wood McCarthy,	*Chicago, Ill.*	A. Δ. Φ. *House.*
Charles McDonald,	*Middletown.*	Δ. T. Δ. *House.*
† Charles Francis McDonald, Jr.,	*Trenton, N. J.*	X. Ψ. *Lodge.*
† Neil Macdonald, Jr.,	*Upper Montclair, N. J.*	Δ. T. Δ. *House.*
† Harold Edgar McGrath,	*East Northfield, Mass.*	83 N. C.
† Willis Gordon MacLelland,	*Waterbury.*	A. X. P. *House.*
John Anson Markham,	*Hartford.*	*Eclectic House.*
Leslie Martin,	*Stamford.*	A. Δ. Φ. *House.*
† Charles Wilbur Matthews,	*Port Washington, N. Y.*	Ω. Φ. *House.*
Augustus Moore Maxwell,	*Chicago, Ill.*	Δ. K. E. *House.*
† Wandell McMaster Mooney,	*Paterson, N. J.*	Ψ. Υ. *House.*
William Arthur Moore,	*Brattleboro, Vt.*	*Commons Club.*
† Lawrence Bradford Neeld,	*Hartford.*	X. Ψ. *Lodge.*
Harvey Zenos Nourse,	*Berlin.*	Δ. T. Δ. *House.*
† Harold Metcalf Paine,	*Worcester, Mass.*	39 N. C.
† Ralph Edward Peck,	*New York, N. Y.*	Δ. K. E. *House.*
† Matias Perez,	*Dupax, P. I.*	Ω. Φ. *House.*
† Ivan Maurice Perkins,	*Penobscot, Me.*	35 N. C.
† Arthur William Phillips,	*Albion, N. Y.*	X. Ψ. *Lodge.*
† Lester Irving Pitt,	*Middletown.*	A. Δ. Φ. *House.*
† Charles Pullman Porter,	*New Rochelle, N. Y.*	79 N. C.
† H. Dart Porter,	*Albion, N. Y.*	X. Ψ. *Lodge.*
† Abram Butler Pratt,	*Troy, N. Y.*	Δ. T. Δ. *House.*
† Earle Wells Pughe,	*Utica, N. Y.*	*Commons Club.*
Guy Foote Pullen,	*Greenwich.*	92 N. C.
† George Hibbard Purdy,	*Morrisonville, N. Y.*	Δ. T. Δ. *House.*
Russell Talcott Purnell,	*South Manchester.*	15 E. H.
† Gordon Bridge Randall,	*Melrose, Mass.*	B. Θ. Π. *House.*
† Walter Royal Rearick,	*Danville, Ill.*	Δ. T. Δ. *House.*
Charles William Riley,	*Burnside.*	*Eclectic House.*

NAMES.	RESIDENCES.	ROOMS.
Percy Couch Rogers,	*Gloucester, Mass.*	73 N. C.
† Harold Sigfrid Sanstrom,	*Portland.*	*Portland.*
William Arnold Shanklin, Jr.,	*Middletown.*	A. Δ. Φ. *House.*
Robert Boies Sharpe,	*Greenwich, N. Y.*	14 O. H.
Elmer Howard Shattuck,	*Laconia, N. H.*	*Commons Club.*
Raymond Dudley Sherwin,	*New Haven.*	56 N. C.
† Elton Robert Skilton,	*Morris.*	17 E. H.
† Edward Crocker Sloan,	*Boston, Mass.*	Ψ. Υ. *House.*
Joseph Roland Smith,	*Brooklyn, N. Y.*	*149 Lincoln St.*
Lynn Howard Smith,	*Binghamton, N. Y.*	B. Θ. Π. *House.*
Potter Lewis Smith,	*Chicago, Ill.*	Δ. K. E. *House.*
Philip Harwood Spear,	*South Paris, Me.*	86 N. C.
† Erland Myles Standish,	*Wethersfield.*	B. Θ. Π. *House.*
Kenneth Porter Stevens,	*Danbury.*	83 N. C.
Everett Fisk Strong,	*Natick, Mass.*	91 N. C.
† Walter Frederick Sutter,	*Elizabeth, N. J.*	1 N. C.
† James Livingstone Thompson,	*Indianapolis, Ind.*	Ψ. Υ. *House.*
Sidney Attilio Thompson,	*Greenwich.*	Δ. T. Δ. *House.*
† Earle Orchard Titus,	*Newark, N. J.*	Δ. K. E. *House.*
Alvin Hill Treadwell,	*Poughkeepsie, N. Y.*	101 N. C.
† Frank Hopewell Underhill,	*Newton Centre, Mass.*	98 N. C.
† John Huber Underhill,	*Jersey City, N. J.*	*Eclectic House.*
† Frank Henry Wenner,	*Utica, N. Y.*	*Eclectic House.*
† Howard Vincent Widdoes,	*Dexter, Me.*	Δ. K. E. *House.*
† Clifford Keith Wilbur,	*East Wareham, Mass.*	Ω. Φ. *House.*
† Lawrence Edwin Williams,	*Geneva, N. Y.*	X. Ψ. *Lodge.*
Charles Myrick Winchester, Jr.,	*Albany, N. Y.*	Δ. K. E. *House.*
Harold Townsend Woolley,	*Little Neck, N. Y.*	Δ. K. E. *House.*

FRESHMEN—CLASS OF 1919.

NAMES.	RESIDENCES.	ROOMS.
† Andrew Augustus Aschenbach,	*Wilmington, Del.*	17 O. H.
James Mason Austin,	*Glens Falls, N. Y.*	19 O. H.
† Paul Livingston Avery,	*Granby.*	*157 College St.*
DeWitt Clair Baldwin,	*Derby, Me.*	*205 College St.*
† Allen Daggett Bean,	*Rockville.*	15 O. H.
† Frederick Dayton Beidleman,	*Newton, N. J.*	2 O. H.
Russell Dudley Bell,	*Plattsburg, N. Y.*	25 N. C.
† Alfred Melville Cleave Bennett,	*Cheshire.*	48 N. C.
Henry Arnold Bennett,	*Stamford.*	13 O. H.
Paul Benrimo,	*Brooklyn, N. Y.*	*41 Home Ave.*
† Ralph Raymond Berger,	*Snydertown, Pa.*	*286 William St.*
† Richard Cissel Berry,	*Elizabeth, N. J.*	12 O. H.
† George Floyd Bickford,	*Bennington, Vt.*	3 N. C.
† Pressley Wood Bittick,	*El Paso, Texas.*	Δ. K. E. *House.*
Sydney Watson Blackett,	*Dorchester, Mass.*	59 N. C.
† Gerald Baldwin Bliss,	*Albion, N. Y.*	Ω. Φ. *House.*
† Joseph Truman Bray,	*East Bangor, Pa.*	*41 Home Ave.*
† Emerson David Bresee,	*Auburn, N. Y.*	*149 Lincoln St.*
Chester Gordon Bridge,	*Hazardville.*	*63 Lawn Ave.*
Earle Cudlipp Broadwell,	*New York, N. Y.*	*308 William St.*
† James Edmiston Brown,	*West Roxbury, Mass.*	*11 Pearl St.*
Harry Clarke Bruner,	*Columbia, Pa.*	*250 High St.*
† John Ireland Brush,	*Brooklyn, N. Y.*	79 N. C.
† Paul Evans Burbank,	*Pittsfield, Mass.*	*108 Lawn Ave.*
Howard Burdick,	*Brooklyn, N. Y.*	99 N. C.
Harry Puckey Burgwin,	*Portchester, N. Y.*	*44 Mt. Vernon St.*
† Walter Scott Buswell,	*Chicago, Ill.*	27 N. C.
† Charles Henry Carey,	*Mauch Chunk, Pa.*	*155 College St.*
Allan Carman,	*New York, N. Y.*	16 N. C.
Hubert Biays Chappell,	*Washington, D. C.*	15 O. H.
Frederick Langley Clark,	*Freeport, N. Y.*	*55 Home Ave.*
† Robert Watkins Clarke,	*Rutherford, N. J.*	54 N. C.
Vincent Brown Coffin,	*Albany, N. Y.*	50 N. C.

NAMES.	RESIDENCES.	ROOMS.
Arthur Prudden Coleman,	*Cheshire.*	13 O. H.
Russell Joseph Conn,	*Boonton, N. J.*	2 O. H.
Frank Cyril Cooper,	*Brockton, Mass.*	*276 College St.*
† Arthur Searles Cramer,	*Portland.*	*31 Brainerd Ave.*
† John Bradshaw Crandell,	*Glens Falls, N. Y.*	89 N. C.
† LeGrand Waldorf Curtis,	*Red Hook, N. Y.*	95 N. C.
† Harold Clifford Cutbill,	*Rowayton.*	*23 Brainerd Ave.*
† Benjamin Woodhull Davis,	*Coram, N. Y.*	*205 College St.*
Edgar Holmes Delamater,	*Hockanum.*	10 O. H.
† Alfred Dodd,	*Middletown.*	*28 Lawn Ave.*
Clifford Francis Dodge,	*Malden, Mass.*	*Commons Club.*
† Charles Nathan Downs,	*Riverhead, N. Y.*	*63 Lawn Ave.*
Kenneth Brevoort DuBois,	*Albany, N. Y.*	*11 Pearl St.*
† Ralph Vernet Farrel,	*Plainville.*	*63 Lawn Ave.*
† William David Fenton, Jr.,	*Portland, Ore.*	Α. Δ. Φ. *House.*
James Newbury FitzGerald,	*Newark, N. J.*	20 O. H.
† Clarence Clark Fleming, Jr.,	*Amityville, N. Y.*	*301 College St.*
† DeWitt Ford,	*Oneonta, N. Y.*	16 O. H.
† Lyle Wayman Forman,	*Trenton, N. J.*	*250 High St.*
† Leonard Beeman Fuller,	*Bloomfield, Vt.*	*Commons Club.*
† Cuthbert Charles Gabel,	*Belvidere, Ill.*	6 N. C.
† Gordon Jasper Gale,	*Newtown.*	*63 Lawn Ave.*
Charles Henry Gilbert,	*Schenectady, N. Y.*	*123 Church St.*
Wallace Spencer Gilman,	*Amityville, N. Y.*	*301 College St.*
Donald Covil Gordon,	*Hazardville.*	*63 Lawn Ave.*
William Drum Gould,	*Ardmore, Pa.*	1 O. H.
† Ulysses Simpson Grant,	*Newton, N. J.*	2 O. H.
† Frederic Halsted Hahn,	*Philadelphia, Pa.*	20 O. H.
Charles David Rutan Halstead,	*Newark, N. J.*	1 O. H.
† Herbert Rhey Hannan,	*Madison, N. J.*	80 N. C.
† Luther Keefer Hannum, Jr.,	*Pottsville, Pa.*	Β. Θ. Π. *House.*
† William Hendry,	*Stowe, Vt.*	*2 Brainerd Ave.*
George Harold Hines,	*Middletown.*	*13 Babcock St.*
† Kenneth Pedden Hinz,	*Middletown.*	*Westfield.*
Arthur Henry Illing,	*Simsbury.*	*157 College St.*
Eugene Howard Jeffrey,	*Elberon, N. J.*	*78 Home Ave.*
† Richard Johns Keeler,	*Wayzata, Minn.*	16 O. H.
† Stewart Benjamin Knapp,	*Stamford.*	7 N. C.

NAMES.	RESIDENCES.	ROOMS.
† Oscar Linden Knipe,	*Bridgeton, N. J.*	B. Θ. Π. *House.*
Gordon Irwin Kyle,	*Belleville, N. J.*	*81 Home Ave.*
James Cordis Langdon,	*Smyrna, Turkey-in-Asia.*	*310 William St.*
† William James Larkins,	*Dunkirk, N. Y.*	*119 College St.*
† Earl Elmer Lasher,	*North Germantown, N. Y.*	18 O. H.
† Harry Emanuel Lawson,	*Woburn, Mass.*	*301 College St.*
Herman Lefkowitz,	*Sea Bright, N. J.*	*34 Pleasant St.*
† Howard Willis Lindsey,	*Rochelle, Ill.*	12 N. C.
† Lloyd Worthington Litchfield,	*Needham, Mass.*	*308 William St.*
† Robert Truett Lockridge,	*Indianapolis, Ind.*	20 O. H.
† Reginald Lester Lord,	*Lyme.*	*206 South Main St.*
Elford Floyd Lounsbury,	*Unionville.*	9 O. H.
Harry Ludwig Luerich,	*Newark, N. J.*	18 N. C.
James John Lyons,	*Cazenovia, N. Y.*	*305 William St.*
Byron Dwight McDonald,	*Dorranceton, Pa.*	9 N. C.
† James Ebenezer McGhee,	*Rochester, N. Y.*	12 O. H.
† Nils Carl Malmquist,	*Wallingford.*	69 N. C.
Daniel Valentine Manahan,	*Monmouth Beach, N. J.*	*149 Lincoln St.*
Dudley Haley Manchester,	*Winsted.*	*301 College St.*
† Arthur Frederick Markthaler,	*Elizabeth, N. J.*	*Gymnasium.*
† Charles Wesley Martin,	*Westfield, N. J.*	*11 Pearl St.*
† John Hall Martin,	*Elizabeth, N. J.*	29 N. C.
† John Lawrence Martin,	*Bondsville, Mass.*	56 N. C.
Everette Dunbar Marvin,	*Derby.*	*250 High St.*
† Charles Thayer Mason,	*Washington Depot.*	*17 Broad St.*
† Edgar Black Mathews,	*Jersey City, N. J.*	*96 High St.*
Raymond Benedict Mead,	*South Bethlehem, N. Y.*	*23 Brainerd Ave.*
† Arthur Tracy Miller,	*Montclair, N. J.*	Δ. K. E. *House.*
William Henry Montgomery,	*Washington, D. C.*	21 N. C.
† George Curtis Morgan,	*Berlin.*	*Berlin.*
Walter Agnew Morris,	*Henderson, Ky.*	*17 Brainerd Ave.*
† Malcolm Wilbur Moss,	*Henderson, Ky.*	*17 Brainerd Ave.*
† Hubert Leslie Mott,	*Watertown, N. Y.*	*149 Lincoln St.*
† Wilton Edgar Mount,	*Englishtown, N. J.*	Σ. Φ. *Lodge.*
Victor Thomas Nearhoof,	*Warrior's Mark, Pa.*	*286 William St.*
† Sidney Merritt Newhall,	*Springfield, Mass.*	11 O. H.
† Benedictus Emil Niese,	*Jersey City, N. J.*	71 N. C.
† Julian Reuben Norris,	*Elizabeth, N. J.*	19 O. H.

NAMES.	RESIDENCES.	ROOMS.
† Harold Lewis Norton,	*Newport, R. I.*	*276 College St.*
† Stephen Adams Norton,	*Mt. Hermon, Mass.*	*41 Home Ave.*
† John Pomfret Nutting,	*Worcester, Mass.*	*299 College St.*
† Carl Edwin Nyman,	*Portland.*	*Portland.*
† John Leonard Palmer,	*Milton-on-Hudson, N. Y.*	Δ. K. E. *House.*
† Earle Waldon Parsons,	*Elizabeth, N. J.*	19 O. H.
† Stuart Grant Peck,	*Oneonta, N. Y.*	X. Ψ. *Lodge.*
† Warren Moncrief Perry,	*Youngstown, Ohio.*	7 O. H.
John Stackhouse Piper,	*Cornwall, N. Y.*	*305 William St.*
† John Halifax Plumb,	*North Adams, Mass.*	*55 Brainerd Ave.*
Maurice Allen Potter,	*North Long Branch, N. J.*	*78 Home Ave.*
† James Vincent Priff,	*Kenilworth, N. J.*	3 O. H.
Austin Leonard Prynn,	*Scranton, Pa.*	*123 Church St.*
Lynn James Radcliffe,	*Weehawken, N. J.*	*215 South Main St.*
George Renwick Raynor,	*Lake Ronkonkoma, N. Y.*	*55 Home Ave.*
Edgar Vernon Read,	*Middletown.*	*37 Fountain Ave.*
Andrew Redheffer,	*West Haven.*	9 O. H.
† Earle Franklin Richards,	*West Haven.*	Ψ. Υ. *House.*
Herbert LeVan Richards,	*Orange, N. J.*	71 N. C.
† Lloyd Durant Richardson,	*Keene, N. H.*	*49 Brainerd Ave.*
James Franklin Ritchie,	*New York, N. Y.*	Δ. K. E. *House.*
† Nelson Virgil Rorer,	*Philadelphia, Pa.*	24 N. C.
† Aubrey Gerald Russell,	*Westfield, N. J.*	X. Ψ. *Lodge.*
† Milton Harold Ryan,	*Nutley, N. J.*	*107 Cross St.*
† Eric Verner Sandin,	*East Hampton.*	*55 Home Ave.*
Gordon Embler Scott,	*Albany, N. Y.*	27 N. C.
† Francis Eliot Seeley,	*Washington.*	4 N. C.
† Russell Thomas Seeley,	*Belleville, N. J.*	*81 Home Ave.*
† Otto Page Sharp,	*Newton Lower Falls, Mass.*	*31 Brainerd Ave.*
† Charles Armitage Shaw,	*Hartsdale, N. Y.*	*55 Home Ave.*
† Graeme Thomas Smallwood,	*Washington, D. C.*	21 N. C.
Calvin Stevens Smith,	*Chicago, Ill.*	Δ. K. E. *House.*
Harry Burden Smith,	*New Haven.*	12 O. H.
† Elliott Howard Sniffin, 2nd,	*White Plains, N. Y.*	*31 Brainerd Ave.*
† Carleton Southwick Spear,	*Warren, R. I.*	6 O. H.
† Waldo Whipple Spear,	*Warren, R. I.*	6 O. H.
Sidney Lewis Straley,	*Brooklyn, N. Y.*	*11 Pearl St.*
† Edwin Stanley Taylor,	*Norwalk.*	*305 William St.*

NAMES.	RESIDENCES.	ROOMS.
† John Wadsworth Thomas,	*Ticonderoga, N. Y.*	71 N. C.
† Clark Coggshall Thompson,	*New York, N. Y.*	14 O. H.
Harold Orlo Thompson,	*Brooklyn, N. Y.*	15 N. C.
Maxwell Samuel Tulin,	*Hartford.*	8 N. C.
Guy Rogers Turner,	*Hartford.*	9 N. C.
† Samuel Foster Upham,	*Brooklyn, N. Y.*	11 O. H.
Charles Herbert Veil,	*East Palestine, Ohio.*	Χ. Ψ. *Lodge.*
† Frank Edward Wade,	*Richmond Hill, N. Y.*	7 O. H.
† Waldo Urban Wagner,	*Scranton, Pa.*	25 N. C.
† Ernest Belden Warriner,	*Springfield, Mass.*	18 O. H.
† Paul Redner Webb,	*Philadelphia, Pa.*	77 N. C.
† Lorenzo Dow Webber,	*Hartford.*	*250 High St.*
† Steacy Ernest Webster,	*Philadelphia, Pa.*	Ψ. Υ. *House.*
† Kok Ann Wee,	*Leonia, N. J.*	*291 Washington Terrace.*
† Wilbert Westcott, Jr.,	*Perth Amboy, N. J.*	*149 Lincoln St.*
† Leslie Whidden,	*Melrose, Mass.*	7 N. C.
† Oliver Gilman Whitney,	*Greenwich.*	Δ. Τ. Δ. *House.*
† Lee Jay Whittles,	*Gildersleeve.*	*Gildersleeve.*
† Walter Robert Williams,	*Sunderland, Mass.*	96 N. C.
† Kenneth Crane Woodruff,	*Elizabeth, N. J.*	77 N. C.

SPECIAL STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Henry Daniels,	*Greenfield, Mass.*	*Berkeley Divinity School.*
Earl Stanley Hall,	*Rochester, N. Y.*	*262 College St.*
George Irvine Hiller,	*Philadelphia, Pa.*	*Berkeley Divinity School.*
James Stanley Howie,	*Cazenovia, N. Y.*	*305 William St.*
Frederick Thompson Laing,	*Chelsea, Mass.*	Ω. Φ. *House.*
Archer Platt Sayres,	*Detroit, Mich.*	*Berkeley Divinity School.*
William Francis Shortelle,	*Meriden.*	*32 Cottage St., Meriden.*
Lester Belmont Squires,	*Babylon, N. Y.*	10 O. H.
Rollin Simpson Tuttle,	*Pacific Grove, Cal.*	*Yalesville.*
Sidney Wishart Wallace,	*Washington, D. C.*	*Berkeley Divinity School.*

SUMMARY.

GRADUATE STUDENTS,	21
SENIORS,	77
JUNIORS,	91
SOPHOMORES,	138
FRESHMEN,	167
SPECIAL STUDENTS,	10
Total,	504

ABBREVIATIONS.

N. C.,	North College.
S. C.,	South College.
O. H.,	Observatory Hall.
E. H.,	East Hall.
J. H.,	Judd Hall.
F. H.,	Fisk Hall.
S. L.,	Scott Laboratory of Physics.
†	Scientific Course.

CLASSIFICATION BY RESIDENCE.

UNITED STATES.

Connecticut,	124
New York,	106
New Jersey,	68
Massachusetts,	51
Pennsylvania,	37
Illinois,	15
Maine,	14
Vermont,	14
New Hampshire,	11
District of Columbia,	10
Rhode Island,	6
Ohio,	5
Minnesota,	4
Michigan,	4
Indiana,	4
Delaware,	3
Kentucky,	3
Maryland,	2
California,	2
Iowa,	2
Texas,	1
Oklahoma,	1
Tennessee,	1
Wisconsin,	1
Missouri,	1
North Carolina,	1
Kansas,	1
Washington,	1
Virginia,	1
Oregon,	1
Hawaii,	1
Philippine Islands,	1

FOREIGN COUNTRIES.

China,	3
England,	1
Denmark,	1
Newfoundland,	1
Turkey in Asia,	1
Total,	504

GENERAL STATEMENT.

Courses of Study.—The College presents to its undergraduates the option of two parallel courses of study, each extending through four years, one leading to the degree of Bachelor of Arts, the other to the degree of Bachelor of Science. Either Latin or Greek is required for admission to the former course. In the Freshman year English is required of students of both courses. The rest of the work is elective from a limited number of courses, with the requirement that a candidate for the B. A. degree must take a three-hour course in either Latin or Greek, and a three-hour course in one of the following: Latin, Greek, Mathematics, Modern Languages; a candidate for the B. S. degree must take the following courses in college, unless he has presented them for admission: Trigonometry, and either Advanced Algebra, Solid Geometry, or Analytic Geometry; I. and II. French; I. and II. German. In the three remaining years, all the studies are elective, within the limits of a group system. Each student must elect a major study.

Special Courses. — Students who do not desire to complete either of the foregoing courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the college.

Graduate Studies.—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments. These courses are intended for those who do not desire to become candidates for the Master's degree, as well as for those who apply for admission to candidacy for such degree. The work of such students, whether candidates for a degree or not, is under the direction of the Committee on Graduate Instruction. The work of a graduate student may consist of undergraduate courses which he has not already completed, or work outside the curriculum assigned by his instructors, or both. Further information concerning graduate courses leading to the Master's degree is given on page 152.

REQUIREMENTS FOR ADMISSION.

For admission without condition the candidate must secure credit for 14½ units, a unit representing a year's work in a secondary school with four or five periods a week, and constituting approximately a quarter of a full year's work.

B. A. DEGREE.—Candidates for the B. A. degree must present English, 3 units, Elementary Algebra, 1½ units, Plane Geometry, 1 unit, Ancient History, 1 unit, and either Latin, 4 units, or Greek, 3 units; making a total of 10½ or 9½ units. The remaining units to make up a total of 14½ may be selected from any of those specified below. Unless both Latin and Greek are offered, candidates must present an elementary modern language, or take a corresponding course in college.

B. S. DEGREE.—Candidates for the B. S. degree must present English, 3 units, Elementary Algebra, 1½ units, Plane Geometry, 1 unit, History, 1 unit, one elementary modern language, 2 units; making a total of 8½ units. The remaining units to make up a total of 14½ may be selected from any of those specified below. Unless two units in science are offered, at least five hours of science must be taken in college.

SCALE OF VALUES.

	Units.
English,	3
Latin, 2 years,	2
3rd year,	1
4th year,	1
Greek, 2 years,	2
3rd year,	1
German—Elementary, 2 years,	2
Intermediate, 3rd year,	1
French—Elementary, 2 years,	2
Intermediate, 3rd year,	1

	Units.
History—Ancient History,	1
Mediaeval and Modern History,	½ or 1 *
English History,	½ or 1 *
American History,	½ or 1 *
Mathematics—Elementary Algebra,	1½
Plane Geometry,	1
Solid Geometry,	½
Advanced Algebra,	½
Plane Trigonometry,	½
Physics, theoretical and practical,	1
Chemistry, theoretical and practical,	1
Physical Geography,	½ or 1 *
Biology,	½ or 1 *

REQUIREMENTS IN DETAIL.

ENGLISH.

The study of English in school has two main objects: (1) command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence, and appreciation.

Grammar and Composition.

The first object requires instruction in grammar and composition. English grammar should ordinarily be reviewed in the secondary school; and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition governing punctuation, the use of words, sentences, and paragraphs should be thoroughly mastered; and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise letter-writing, narration, description, and easy exposition and argument. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from his reading in literature. Finally, special instruction in language

* Depending on the length of the course.

and composition should be accompanied by concerted effort of teachers in all branches to cultivate in the student the habit of using good English in his recitations and various exercises, whether oral or written.

LITERATURE.

The second object is sought by means of two lists of books, headed respectively Reading and Study, from which may be framed a progressive course in literature covering four years. In connection with both lists, the student should be trained in reading aloud and be encouraged to commit to memory some of the more notable passages both in verse and in prose. As an aid to literary appreciation, he is further advised to acquaint himself with the most important facts in the lives of the authors whose works he reads and with their place in literary history.

A. READING.

The aim of this course is to foster in the student the habit of intelligent reading and to develop a taste for good literature, by giving him a first-hand knowledge of some of its best specimens. He should read the books carefully, but his attention should not be so fixed upon details that he fails to appreciate the main purpose and charm of what he reads.

With a view to large freedom of choice, the books provided for reading are arranged in the following groups, from each of which at least two selections are to be made, except as otherwise provided under Group I.

GROUP I. CLASSICS IN TRANSLATION.—The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the Odyssey, with the omission, if desired, of Books I., II., III., IV., V., XV., XVI., XVII.; the Iliad, with the omission, if desired, of Books XI., XIII., XIV., XV., XVII., XXI.; the Aeneid. The Odyssey, Iliad, and Aeneid should be read in English translations of recognized literary excellence.

For any selection from this group a selection from any other group may be substituted.

GROUP II. SHAKESPEARE.—Midsummer Night's Dream, Merchant of Venice, As You Like It, Twelfth Night, The Tempest, Romeo and Juliet, King John, Richard II., Richard III., Henry V., Coriolanus, *Julius Caesar, *Macbeth, *Hamlet.

GROUP III. PROSE FICTION.—Malory: Morte d'Arthur (about 100 pages); Bunyan: Pilgrim's Progress, Part I.; Swift: Gulliver's Travels (voyages to Lilliput and to Brobdingnag); Defoe: Robinson Crusoe, Part I.; Goldsmith: Vicar of Wakefield; Frances Burney: Evelina; Scott's novels: any *one*; Jane Austen's novels: any *one*; Maria Edgeworth: Castle Rackrent, or The Absentee; Dickens's novels: any *one*; Thackeray's novels: any *one*; George Eliot's novels: any *one*; Mrs. Gaskell: Cranford; Kingsley: Westward Ho! or Hereward, the Wake; Reade: The Cloister and the Hearth; Blackmore: Lorna Doone; Hughes: Tom Brown's Schooldays; Stevenson: Treasure Island, or Kidnapped, or Master of Ballantrae; Cooper's novels: any *one*; Poe: Selected Tales; Hawthorne: The House of the Seven Gables, or Twice Told Tales, or Mosses from an Old Manse; a collection of short stories by various standard writers.

GROUP IV. ESSAYS, BIOGRAPHY, ETC.—Addison and Steele: The Sir Roger de Coverley Papers, or Selections from The Tatler and Spectator (about 200 pages); Boswell: selections from the Life of Johnson (about 200 pages); Franklin: Autobiography; Irving: selections from the Sketch Book (about 200 pages), or Life of Goldsmith; Southey: Life of Nelson; Lamb: selections from the Essays of Elia (about 100 pages); Lockhart: selections from the Life of Scott (about 200 pages); Thackeray: Lectures on Swift, Addison, and Steele in the English Humourists; Macaulay: any one of the following essays: Lord Clive, Warren Hastings, Milton, Addison, Goldsmith, Frederic the Great, Madame d' Arblay; Trevelyan: selections from the Life of Macaulay (about 200 pages); Ruskin: Sesame and Lilies, or selections (about 150 pages); Dana: Two Years before the Mast; Lincoln: selections, including at least the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, the Letter to Horace Greeley, together with a brief memoir or estimate of Lincoln;

* If not chosen for study under B.

Parkman: The Oregon Trail; Thoreau: Walden; Lowell: selected Essays (about 150 pages); Holmes: The Autocrat of the Breakfast Table; Stevenson: An Inland Voyage, and Travels with a Donkey; Huxley: Autobiography, and selections from Lay Sermons, including the addresses on Improving Natural Knowledge, A Liberal Education, and A Piece of Chalk; a collection of Essays by Bacon, Lamb, DeQuincey, Hazlitt, Emerson, and later writers; a collection of letters by various standard writers.

GROUP V. POETRY. — Palgrave's Golden Treasury (First Series), Books II. and III., with special attention to Dryden, Collins, Gray, Cowper, and Burns; Palgrave's Golden Treasury (First Series), Book IV., with special attention to Wordsworth, Keats, and Shelley (if not chosen for study under B); Goldsmith: The Traveller and The Deserted Village; Pope: The Rape of the Lock; a collection of English and Scottish ballads, as, for example, some Robin Hood ballads, The Battle of Otterburn, King Estmere, Young Beichan, Bewick and Grahame, Sir Patrick Spens, and a selection from later ballads; Coleridge: The Ancient Mariner, Christabel, and Kubla Khan; Byron: Childe Harold, Canto III. or IV., and the Prisoner of Chillon; Scott: The Lady of the Lake, or Marmion; Macaulay: The Lays of Ancient Rome, The Battle of Naseby, The Armada, Ivry; Tennyson: The Princess, or Gareth and Lynette, Lancelot and Elaine, and The Passing of Arthur; Browning: Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Hervé Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City, The Italian in England, The Patriot, The Pied Piper, De Gustibus, Instans Tyrannus; Arnold: Sohrab and Rustum, and The Forsaken Merman; selections from American poetry, with special attention to Poe, Lowell, Longfellow, and Whittier.

B. STUDY.

This part of the requirement is intended as a natural and logical continuation of the student's earlier reading, with greater stress laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions. The

books provided for study are arranged in four groups, from each of which one selection is to be made.

GROUP I. DRAMA.—Shakespeare: Julius Caesar, Macbeth, Hamlet.

GROUP II. POETRY.—Milton: L'Allegro, Il Penseroso, and either Comus or Lycidas; Tennyson: The Coming of Arthur, The Holy Grail, and The Passing of Arthur; the selections from Wordsworth, Keats, and Shelley in Book IV. of Palgrave's Golden Treasury (First Series).

GROUP III. ORATORY.—Burke: Speech on Conciliation with America; Macaulay's two Speeches on Copyright and Lincoln's Speech at Cooper Union; Washington's Farewell Address and Webster's First Bunker Hill Oration.

GROUP IV. ESSAYS.—Carlyle: Essay on Burns, with a selection from Burns's Poems; Macaulay: Life of Johnson; Emerson: Essay on Manners.

EXAMINATION.

However accurate in subject-matter, no paper will be considered satisfactory if seriously defective in punctuation, spelling, or other essentials of good usage.

The examination will be divided into two parts, one of which will be on grammar and composition, and the other on literature.

In grammar and composition, the candidate may be asked specific questions upon the practical essentials of these studies, such as the relation of the various parts of a sentence to one another, the construction of individual words in a sentence of reasonable difficulty, and those good usages of modern English which one should know in distinction from current errors. The main test in composition will consist of one or more essays, developing a theme through several paragraphs; the subjects will be drawn from the books read, from the candidate's other studies, and from his personal knowledge and experience quite apart from reading. For this purpose the examiner will provide several subjects, perhaps eight or ten, from which the candidate may make his own selections. He will not be expected to write more than four hundred words per hour.

The examination in literature will include:

A. General questions designed to test such a knowledge and appreciation of literature as may be gained by fulfilling the requirements defined under A. READING, above. The candidate will be required to submit a list of the books read in preparation for the examination, certified by the principal of the school in which he was prepared; but this list will not be made the basis of detailed questions.

B. A test on the books prescribed for study, which will consist of questions upon their content, form, and structure, and upon the meaning of such words, phrases, and allusions as may be necessary to an understanding of the works and an appreciation of their salient qualities of style. General questions may also be asked concerning the lives of the authors, their other works, and the periods of literary history to which they belong.

LATIN.

I. AMOUNT AND RANGE OF READING REQUIRED.

1. The Latin reading required of candidates for admission to the B. A. course, without regard to the prescription of particular authors and works, is not less *in amount* than Caesar, Gallic War, I.–IV.; Cicero, the orations against Catiline, for the Manilian Law, and for Archias; Vergil, Aeneid, I.–VI.

2. The amount of reading specified above should be selected by the schools from the following authors and works: Caesar (Gallic War and Civil War) and Nepos (Lives); Cicero (orations, letters, and De Senectute) and Sallust (Catiline and Jugurthine War); Vergil (Bucolics, Georgics, and Aeneid) and Ovid (Metamorphoses, Fasti, and Tristia).

II. SUBJECTS AND SCOPE OF THE EXAMINATIONS.

1. Translation at Sight. Candidates will be examined in translation at sight of both prose and verse. In vocabulary, constructions, and range of ideas, the passages set will be suited to the preparation secured by the reading indicated above.

2. Prescribed Reading. Candidates will be examined also upon the following prescribed reading: Cicero, orations for the Manilian Law and for Archias, and Vergil, Aeneid, I., II., and either IV. or VI. at the option of the candidate, with questions

on subject-matter, literary and historical allusions, and prosody. Every paper in which passages from the prescribed reading are set for translation will contain also one or more passages for translation at sight; and candidates must deal satisfactorily with both these parts of the paper, or they will not be given credit for either part.

The papers set by the College Entrance Examination Board, corresponding to the above requirements, are Latin 4 and 5.

3. Grammar and Composition. The examinations in grammar and composition will demand thorough knowledge of all regular inflections, all common irregular forms, and the ordinary syntax and vocabulary of the prose authors read in school, with ability to use this knowledge in writing simple Latin prose. The words, constructions, and range of ideas called for in the examinations in composition will be such as are common in the reading of the year, or years, covered by the particular examination.

The papers set by the College Entrance Examination Board, corresponding to the above requirements, are Latin 1 and 2.

In the case of candidates who desire credit for *two years'* work in Latin, the required reading is not less *in amount* than Caesar, Gallic War, I.–IV., and should be selected from the following: Caesar (Gallic War and Civil War) and Nepos (Lives). The test is on ability to read at sight, and no part of the reading is prescribed for examination. The corresponding paper of the College Entrance Examination Board is Latin 3. For *three years'* credit, the required reading is not less *in amount* than Caesar, Gallic War, I.–IV., and Cicero, the orations against Catiline, for the Manilian Law, and for Archias; this reading should be selected from Caesar (Gallic War and Civil War) and Nepos (Lives), Cicero (orations, letters, and De Senectute) and Sallust (Catiline and Jugurthine War). Cicero's orations for the Manilian Law and for Archias are prescribed for examination, in addition to the translation at sight. The corresponding paper of the College Entrance Examination Board is Latin 4. For this may be substituted, if desired, the examination in fourth-year Latin, Vergil and Translation of Poetry at sight (Latin 5).

Certificates for two years of Latin must state that the candidate has had systematic practice, and has exhibited satisfactory

proficiency, in reading at sight Latin of the average difficulty of Caesar; certificates for three years must vouch for similar practice and proficiency in reading at sight Latin of the average difficulty of either Cicero's orations or Vergil's Aeneid; and certificates for four years must vouch for such practice and proficiency in reading at sight Latin of the average difficulty of both Cicero's orations and Vergil's Aeneid.

GREEK.

1. Greek grammar, including prosody. The following text-books are recommended: Hadley-Allen's, Goodwin's, or Babbitt's.
2. Xenophon,—Anabasis, books I.–IV.
3. Homer,—Iliad, books I.–III.
4. Translation at sight of one or more passages from Xenophon.
5. Translation into Greek of easy narrative passages based on the required books of the Anabasis.

To meet the full requirement in Greek, candidates must pass the following examinations of the College Entrance Examination Board: Greek *a i*, *a ii*, *b*, *c*, *g*.

GERMAN.

ELEMENTARY (counting as two units).—Such a knowledge of the language is required as may be obtained by the reading of at least 300 pages, part of which should be read at sight. It is recommended that there be sufficient aural and oral practice to enable the student to write simple German prose from dictation and to read the language aloud with a correct and intelligible pronunciation. The ability to answer simple questions in German is also highly important. The examination consists of the translation at sight into English of easy passages of German, elementary grammatical questions, and the translation of simple English sentences into German. To meet this requirement two years' work will generally be necessary.

INTERMEDIATE.—The requirement includes the reading of at least 300 additional pages of German (not more than half of which should be fiction), and regular practice in writing German. Further practice in speaking German is

recommended, sufficient to enable the student to understand simple spoken German, and to express simple ideas in the language. At least one additional year of study will be necessary to meet this requirement.

FRENCH.

ELEMENTARY (counting as two units).—Such a knowledge of the language is required as may be obtained by the reading of at least 400 pages, part of which should be read at sight. The examination consists of the translation at sight into English of easy passages of French, elementary grammatical questions, and the translation of simple English sentences into French. To meet this requirement two years' work will generally be necessary.

INTERMEDIATE.—The requirement includes the reading of not less than 600 additional pages of French (including at least two works of a dramatic character), and regular practice in writing and speaking French. At least one additional year of study will be necessary to meet this requirement.

HISTORY.

1. Ancient History to the death of Charlemagne (814).
2. Mediaeval and Modern European History from the death of Charlemagne (814) to the present time.
3. English History.
4. American History and Civil Government.

These four courses are outlined in *The Study of History in Schools: Report to the American Historical Association by the Committee of Seven* (1899), and with more detail in *A History Syllabus for Secondary Schools . . . . by a Special Committee of the New England History Teachers' Association* (1904), and in *Syllabus for Secondary Schools, 1910*, published by the University of the State of New York. These courses are identical with those scheduled for examination by the College Entrance Examination Board.

In each of the above courses the following requirements must be met:

1. One year of historical work, wherein the study is given five times per week, or two years of historical work, wherein the study is given three times per week.

2. Such general knowledge of the whole course as may be acquired from the study of an accurate text-book, amounting to not less than 500 pages.

3. A fuller knowledge derived from suitable collateral reading, in books of a less elementary nature, amounting to at least 500 pages.

4. Comparisons between historical characters, periods, and events, and in general the power to combine in orderly fashion the results of reading, and to exercise judgment as well as memory.

5. Geographical knowledge, tested by the location of places, movements, and territorial changes on an outline map, by physical features wherever possible, as well as by political features.

Schools having the certificate privilege must certify only those courses in history actually pursued in the high school and must omit any courses taken in the grammar school, or merely passed on examination, or not complying with the above requirements.*

The Regents' diplomas and supplementary pass cards of the University of the State of New York for the *five*-hour examinations will be received as covering the first, third, and fourth of the above groups, and for the three hour examinations in *both* Modern History I. and Modern History II. as covering the second of the above groups.†

Candidates for the B.A. degree must present Ancient History, the first of the above groups, and may, in addition, present

* In case of schools entitled to the certificate privilege, where any of the courses in history are such that they do not meet the above requirements, the teacher should give the student a detailed statement of the courses taken and of his grades, which statement will be considered in connection with such examination as may be deemed necessary to determine the amount of credit to be allowed. In no case will account be taken of a course in Greek History which does not extend at least to the death of Alexander (B. C. 323), or of a course in Roman History which does not extend at least to the death of Marcus Aurelius (A. D. 180). No account will be taken of any course of less than five periods for a half-year, or three periods for a year.

† No credit will be allowed for the *three*-hour examination in Ancient History. Temporarily, the three-hour examinations in the other subjects will be credited for a half-unit. No credit is given for Elementary United States History and Civics, or Civics, or Economics.

one or more of the other groups. Candidates for the B. S. degree must present at least one of the above groups, preferably the fourth (American History and Civil Government), and, in addition, may present one or more of the other groups.

MATHEMATICS.

1. ELEMENTARY ALGEBRA.

(*a*) Algebra to Quadratics. The four fundamental operations for rational algebraic expressions. Factoring, determination of highest common factor and lowest common multiple by factoring. Fractions, including complex fractions, and ratio and proportion. Linear equations, both numerical and literal, containing one or more unknown quantities. Problems depending on linear equations. Radicals, including the extraction of the square root of polynomials and of numbers. Exponents, including the fractional and negative.

(*b*) Quadratics and beyond. Quadratic equations, both numerical and literal. Simple cases of equations with one or more unknown quantities, that can be solved by the methods of linear or quadratic equations. Problems depending on quadratic equations. The binomial theorem for positive integral exponents. The formulas for the *n*th term and the sum of the terms of arithmetical and geometric progressions, with applications.

2. PLANE GEOMETRY.

The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons, and the measurement of the circle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of lines and plane surfaces.

3. SOLID GEOMETRY.

The usual theorems and constructions of good text-books, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle. The solution of numerous original exercises, including loci problems. Applications to the mensuration of surfaces and solids.

4. ADVANCED ALGEBRA.

Permutations and combinations, limited to simple cases. Complex numbers, with graphical representation of sums and differences. Determinants, chiefly of the second, third, and fourth orders, including the use of minors and the solution of linear equations. Numerical equations of higher degree, and so much of the theory of equations, with graphical methods, as is necessary for their treatment, including Descartes' rule of signs and Horner's method, but not Sturm's functions or multiple roots.

5. PLANE TRIGONOMETRY.

Definitions and relations of the six trigonometric functions as ratios; circular measurement of angles. Proofs of principal formulas, in particular for the sine, cosine, and tangent of the sum and the difference of two angles, of the double angle and the half angle, the product expressions for the sum or the difference of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas. Solution of trigonometric equations of a simple character. Theory and use of logarithms (without the introduction of work involving infinite series). The solution of right and oblique triangles, and practical applications.

PHYSICS.

The course of instruction should include:

(1) The careful study of a standard text-book, for the purpose of obtaining a connected and comprehensive view of the subject.

(2) Lecture table demonstrations, mainly qualitative, illustrating important facts and phenomena and their practical applications.

(3) Individual laboratory work, consisting of experiments requiring at least the time of thirty double periods. The experiments performed by each student should number at least 30. They should be chiefly quantitative, and so chosen as to give a wide range of observation and practice. They should be neatly recorded in a suitable note-book, *indexed, and certified by the instructor.* This book should be deposited at the Secretary's office for examination, when the candidate presents himself for admission to college

The above requirements are intended to be identical with those of the College Entrance Examination Board, as set forth in their Document No. 68. Teachers of physics are advised to consult this document for a valuable syllabus of topics and list of experiments.*

CHEMISTRY.

The requirements for admissiou in chemistry may be summarized as follows:

(1) Individual laboratory work, comprising at least forty experiments. The candidate who is examined in chemistry for admission to college must present his original note-book containing a record in his own words of the experiments, and of his observations and conclusions in connection with them. The note-book should include *an index of the experiments performed, and must be certified by the instructor.* It should be deposited for inspection at the Secretary's office at the time when the candidate presents himself for admission to college.

(2) Instruction by lecture table demonstrations, covering the more important facts and principles of chemistry.

(3) The thorough study of at least one standard text-book, for the acquisition of a comprehensive and connected view of the subject.

These requirements are intended to be identical with those of the College Entrance Examination Board. Teachers who desire to meet them should consult Document No. 68 of the Board.*

PHYSICAL GEOGRAPHY.

In physical geography, such a knowledge of the subject is required as may be gained from the study of the text-book of any one of the following authors: Salisbury, Tarr, Davis, Gilbert and Brigham, Hinman, Dryer, Hopkins, Geikie. Certificates in physical geography will not be accepted without examination, with credit of one half-unit, unless one of the text-books above mentioned has been used, and the time devoted to the study has been at least the equivalent of four

* Address College Entrance Examination Board, P. O. Sub-Station 84, New York City. The price of the document is ten cents.

exercises a week for a half-year. Certificates will not be accepted without examination, with credit of one unit, unless one of the text-books above mentioned has been used, supplemented by collateral reading or laboratory work, and the time devoted to the study has been at least the equivalent of four exercises a week for a year.

BIOLOGY.

Credit will be given in biology for either one-half unit or for one unit, according to the amount of time the student has given to the study. To obtain a credit of one unit, the student must have given to the study the equivalent of four or five hours a week for a year. Credit will be allowed for work in either botany or zoölogy, any of the modern text-books in these subjects being recognized as satisfactory. If the student desires credit for a unit in botany he is expected to have a knowledge of both structural and morphological botany, and to have a practical familiarity with the method of analyzing flowers and using analytical keys. In zoölogy a more thorough comprehension of the structure and classification of animals is expected if a unit credit is given than if only a half unit. In case a student has had an extended course in physiology, this may be accepted in place of botany.

SPECIAL COURSES.

Special students, not candidates for a degree, may be admitted, upon passing such examinations as the Faculty shall in each case prescribe. (See also page 33.)

GENERAL REGULATIONS CONCERNING ADMISSION.

ADVANCED STANDING.—All candidates for advanced standing must satisfy the Faculty of their proficiency in the preparatory studies, the required studies already pursued by the classes they propose to enter, and the proper quota of elective studies, or studies recognized as equivalents therefor. A certificate of

standing in another college is not accepted as evidence of such proficiency, without such further inquiry or examination as may be necessary in the judgment of the respective instructors.

PRELIMINARY EXAMINATIONS.—Preliminary examinations in any of the requirements for admission may be taken a year or more before entering college, and a candidate will receive credit for any subjects thus passed in advance.

DATE AND PLACE OF EXAMINATIONS.—Examinations for admission are held twice each year, in June and in September.

In June the entrance examinations of the college are those of the College Entrance Examination Board, of which Wesleyan University is a member. An application for the privilege of taking these examinations must be made to the Secretary of the College Entrance Examination Board, Post Office Sub-Station 84, New York, N. Y., from whom all necessary information regarding the June examinations can be obtained. These examinations will be held June 19–24, 1916, at a large number of widely distributed points, including Middletown.

Applications for examination at points in the United States east of the Mississippi River (also at Minneapolis, St. Louis, and other points on the Mississippi River) must be received by the Board on or before Monday, June 5, 1916; applications for examination elsewhere in the United States or in Canada must be received on or before Monday, May 29, 1916; and applications for examination at points outside of the United States and Canada must be received on or before Monday, May 15, 1916. In order to facilitate the making of arrangements for the proper conduct of the examinations, it is desired that all applications be filed as early as possible.

Each application filed in accordance with the foregoing requirements must be accompanied by the examination fee, which is $5.00 for candidates examined at points in the United States and Canada, and $15.00 for candidates examined at points outside the United States and Canada. This fee should be remitted by postal order, express order, or draft on New York, payable to the College Entrance Examination Board.

Applications received later than the dates named above will be accepted when it is practicable to arrange for the examination of the candidates concerned, but only upon the payment of

$5.00 in addition to the regular fee. The blank forms necessary for making this application may be obtained only from the Secretary of the College Entrance Examination Board.

The fees of candidates for examination in June, 1916, whose applications have been accepted by the Secretary, can under no circumstances be returned unless the request for their return is received on or before Monday, June 12, 1916.

A candidate for examination in two or more years will be required to pay the examination fee in each year.

The examinations in September will be conducted by the college, and no fees will be charged. They will be held only in Middletown. The date of the examination in 1916 will be September 20–21.

ADMISSION BY CERTIFICATE.—Certificates covering the foregoing requirements for admission to college are received from certain schools of good standing, which have been approved by the Faculty. A certificate will not be received unless it covers decidedly the major part of the requirements for admission.

No certificate will be received from any school in New England which has not been approved by the New England College Entrance Certificate Board, of which this college is a member. The Secretary of the Board is Professor Frank W. Nicolson, of Wesleyan University, Middletown, Conn., to whom applications from New England schools for the certificate privilege should be addressed. Such applications must reach the Secretary not later than April first, if approval is desired for the next academic year.

Certificates of the College Entrance Examination Board will be received in lieu of examination in the subjects which they cover.

Diplomas issued by the Regents of the University of the State of New York, and pass cards supplementary to such diplomas, will be received in lieu of examination in the subjects which they cover. Regents' certificates will also be received, provided they cover decidedly the major part of the requirements for admission.

Certificates from preparatory schools and Regents' diplomas are never accepted in lieu of examination for advanced standing.

Students entering by certificate are considered as on trial until the completion of the mid-year examinations. A student

admitted to college on certificate, who is dismissed during his Freshman year on account of inability to keep up with his class, must take examinations in all subjects required for admission, in case he desires to return to college.

Detailed information concerning admission by certificate may be obtained on application to the Secretary of the Faculty.

ADMISSION OF WOMEN.—Women were first admitted to the University in 1872. The Trustees voted, February 26, 1909, that no women should be admitted in any class later than that entering in 1909. Women may be admitted, however, as graduate students.

Satisfactory evidence of good moral character will be required in the case of all candidates for admission; and certificates of honorable dismissal will be required from those who have been members of other colleges.

COURSES OF INSTRUCTION.

For regulations concerning selection of studies, see page 106.

Bracketed courses are not given this year, but will, in most cases, be given next year.

The figures [1] and [2] following the number of a course indicate respectively that the course is offered for the first or the second half-year.

The Roman numerals in parentheses following each course indicate the examination group to which it is assigned. For table of groups, see pages 104 and 105.

The place of meeting of each course is indicated by means of the following abbreviations: F. H.=Fisk Hall; J. H.=Judd Hall; O. H.=Observatory Hall; S. L.=Scott Laboratory of Physics; CHEM. LAB., BIOL. LAB.=Chemical, Biological Laboratory.

An asterisk prefixed to the number of a course indicates that it can be elected only with the previous approval of the instructor; such approval must be *in writing* and must be handed in by the student *along with his list of electives.*

LATIN.

PROFESSORS HARRINGTON, NICOLSON, AND HEWITT.

Of the following courses in Latin, Courses I. and I.A are given every year, the remaining courses usually in alternate years only, the bracketed courses being omitted in 1915–16. Either Course I. in Latin or Course I. in Greek is required of all candidates for the degree of B. A. Course I.A should be elected in Freshman year by all students intending to pursue any further study of the classics. Courses II.–VI. are elective for those who have taken Course I. Courses I., I.A, two of Courses II.–V., and any one of Courses VI., XV., and XVI. are required of candidates for preliminary honors in classics. Courses VII.–XX. are intended primarily for those who have taken at least Course I. and two of Courses II.–V. But Courses XV. and XIX. may by special permission of the instructor be elected by those who have taken only Course I.; and students of marked ability in the reading of Latin, who are taking one of Courses II.–V., may be admitted to certain of the other courses at the same time by special permission of the instructor, to whom application should in each case be made.

I. LIVY,—Selections *(first half-year).* TERENCE,—Heauton Timoroumenos; PLAUTUS,—Mostellaria *(second half-year).* Exercises in sight translation throughout the year. SECTION

1, *Mon., Wed., Fri., at 9;* SECTION 2, *Tu., Th., Sat., at 9;* SECTION 3, *Tu., Th., Sat., at 11.* 31 F. H. PROFESSORS NICOLSON and HEWITT. (VIII.)

I.A. SUPPLEMENTARY COURSE. Training in rapid reading; practice in Latin composition. Occasional lectures throughout the year by the instructors in Latin, giving a preliminary survey of the various departments of classical study. *Wed., at 11.* 31 F. H. PROFESSOR NICOLSON. (IV.)

II.[1] CICERO,—Selected letters, to give a more intimate acquaintance with the history of Rome during the last two decades of the republic, and to compare colloquial with formal Latin. *Tu., Th., at 12 (first half-year).* 31 F. H. PROFESSOR HARRINGTON. (XI.)

III.[2] HORACE,—Odes and Epodes, to illustrate the lyric art of the Augustan age. *Tu., Th., at 12 (second half-year).* 31 F. H. PROFESSOR HARRINGTON. (XI.)

[IV.[1] HORACE,—Satires and Epistles, to illustrate the social and literary standards of Rome at the beginning of the empire. *Twice a week (first half-year).* PROFESSOR HARRINGTON.]

[V.[2] PLINY THE YOUNGER,—Selected letters, to illustrate especially the state of Roman society at the close of the first century after Christ. *Twice a week (second half-year).* PROFESSOR HARRINGTON.]

VI.[1] LATIN PROSE COMPOSITION. In this course the elementary principles of Latin style are studied and considerable amounts of English prose (dealing with subjects both ancient and modern) are translated into Latin. *Tu., Th., at 10 (first half-year).* 31 F. H. PROFESSOR HEWITT. (IX.)

[VII. RAPID READING. The aim in this course is to read large amounts of comparatively easy Latin, with a view to acquiring facility in the use of the language. The selections for the first half-year are from poetry (Vergil, Plautus, Terence); in the second half-year from prose (Caesar, Suetonius, Gellius). A considerable part of the reading is done outside of class, and tested by written recitations. *Twice a week.* PROFESSOR NICOLSON.]

[VIII. ROMAN LITERATURE. A historical and critical survey of Roman literature given by means of lectures, a text-book dealing with the general subject, illustrative class-room readings in Latin and in English translations, and a choice of several collateral reading courses covering different periods. This course is designed primarily for students who desire a wider general acquaintance with the literature of the Romans and its relation to other literatures, without special emphasis upon its distinctly philological features. *Twice (counting as three times) a week.* PROFESSOR HARRINGTON.]

IX. ROMAN ELEGIAC POETRY. The origin and development of the elegiac form. Selections from Catullus, Tibullus, Propertius, and Ovid. Practice in original research. Seminar methods are employed. *Tu., Th., at 9.* 32 F. H. PROFESSOR HARRINGTON. (VIII.)

[X.[1] OVID,—the Fasti, with special attention to questions of Roman history and comparative religion. *Twice a week (first half-year).* PROFESSOR HEWITT.]

XI. ROMAN SATIRE. From its beginnings through the Golden Age. Selections from Ennius, Lucilius, Varro, Horace, Persius, Juvenal, Petronius, Martial, and Apuleius; the Apocolocyntosis of Seneca; lectures on the earliest forms of the novel. *Mon., Fri., at 10.* 31 F. H.. PROFESSOR NICOLSON. (III.)

[XII. ROMAN PHILOSOPHY. Lucretius (selections); Cicero (selections from the Academica, De Officiis, Tusculanae Disputationes, De Finibus, De Natura Deorum); Seneca (selected essays and epistles); lectures on the development of Roman philosophy. *Three times a week.* PROFESSOR HARRINGTON.]

[XIII.[2] TACITUS. Selections from the Annals I.–VI., designed to illustrate the author's conception of the character of Tiberius, and of the upbuilding of the principate. *Twice a week (second half-year).* PROFESSOR HEWITT.]

XIV.[2] CATULLUS AND THE LYRIC ART OF THE ROMANS. The beginnings of lyric poetry among the Romans, with a

brief study of its later development and of lyric forms. *Mon., Fri., at 12 (second half-year).* 31 F. H. PROFESSOR HARRINGTON. (V.)

[XV.[1] ROMAN PRIVATE LIFE AND SOCIAL INSTITUTIONS. A course of lectures, illustrated by photographs, engravings, and lantern slides, and requiring some collateral study of original and of secondary authorities, and the careful preparation of note-books. *Three times a week (first half-year).* PROFESSOR HARRINGTON.]

[XVI.[2] HISTORICAL LATIN GRAMMAR. Lectures on the historical development of Latin grammar, as regards both forms and syntax, with illustrative readings in inscriptions and in early Roman literature. *Three times a week (second half-year).* PROFESSOR HARRINGTON.]

*XVII.[1] LATIN EPIGRAPHY. An introductory course, with special attention to inscriptions of historical interest. The course is prefaced by a brief survey of the general classes and formal characteristics of Latin inscriptions, based upon Egbert's Introduction. *Mon., Wed., at 9 (first half-year).* 37 F. H. PROFESSOR HARRINGTON. (II.)

*XVIII.[2] ROMAN TOPOGRAPHY AND PUBLIC BUILDINGS. A course of lectures, illustrated by photographs, engravings, and lantern slides, and requiring some collateral study of original and of secondary authorities, and the careful preparation of note-books. *Mon., Wed., at 9 (second half-year).* 37 F. H. PROFESSOR HARRINGTON. (II.)

XIX.[2] ROMAN POLITICAL INSTITUTIONS AND LAW. An introductory course, based partly on original, and partly on modern authorities, given by lectures and the use of text-books. *Twice a week (second half-year), the hours to be determined hereafter.* 31 F. H. PROFESSOR HARRINGTON.

XX. LATIN LITERATURE SINCE THE ROMAN EMPIRE. Lectures introductory to the literature written in the universal language of the ecclesiastical and learned European world from the fifth century to the seventeenth century. Illustrative readings from some of the most interesting types of prose and

poetry, including the novel, the drama, the epic, the lyric, the epistle, satirical poetry, and the writings of the Church Fathers. *Mon., Wed., at 11.* 32 F. H. PROFESSOR HARRINGTON. (IV.)

For the most successful prosecution of even the earlier courses in Latin, ability to read German prose on philological subjects is decidedly advantageous, and for the most advanced courses it is generally necessary. Students, therefore, who look forward to the study of Latin beyond the more elementary courses, and who have on admission to college no acquaintance with German, should devote special attention to that subject in the Freshman year.

GREEK.

PROFESSORS HEIDEL AND HEWITT; MR. WILLOUGHBY (Squire Fellow.)

A. BEGINNERS' COURSE. Grammar and exercises; Xenophon,—Anabasis. *Mon., Wed., at 7; Tu., Th., at 2.* 31 F. H. PROFESSOR HEWITT and MR. WILLOUGHBY.

Credit for Course A will be given only to students who attain in it a grade of three or above and subsequently pass Course B and Course I. in Greek.

B. HOMER,—Odyssey. *Th., at 2.* 37 F. H. PROFESSOR HEWITT.

Course B is intended for students who have taken Course A or its equivalent.

I. PLATO,—Euthyphro, Apology, and Crito; XENOPHON,—Selections from the Memorabilia; HERODOTUS,—Selections. *Mon., Wed., Fri., at 10.* 31 F. H. PROFESSOR HEIDEL. (III.)

Course I. is intended for students who have completed the entrance requirements in Greek, or Courses A and B. It may, however, be taken by those who have completed only Course A, or its equivalent, provided that they have attained a grade of three or above and are taking Course B.

Course I. in Greek, or Course I. in Latin, is required of candidates for the B. A. degree. Course I. is required of candidates for preliminary honors in classics.

II. ATTIC ORATORS *(first half-year)*. EURIPIDES,—Alcestis; ARISTOPHANES,—Clouds *(second half-year)*. *Wed., Fri., at 8.* 31 F. H. PROFESSOR HEWITT. (I.)

Course II. is elective for those who have taken Course I. It is required of candidates for preliminary honors in classics.

[III.[1] GREEK PROSE COMPOSITION. *Twice a week (first half-year)*. PROFESSOR HEIDEL.]

Course III. is elective for those who take, or have taken, Course II. Either Course III. or Course IV. is required of candidates for preliminary honors in classics.

IV. HISTORY OF GREEK LITERATURE. Recitations, lectures, and collateral reading are supplemented by a more intensive study of selected portions of the literature. Especial stress is laid upon the relation between the Greek and English literatures, with respect both to literary form and to subject matter. Knowledge of Greek is not required. *Tu., Th., at 11.* 37 F. H. PROFESSOR HEWITT. (X.)

Course IV. is elective for Juniors, or for Sophomores who are taking Course II. Either Course III. or Course IV. is required of candidates for preliminary honors in classics.

Courses III. and IV. are given in alternate years, Course III. being omitted in 1915–16.

[V.[1] PLATO,—Gorgias; DEMOSTHENES,—The Oration on the Crown. Collateral study of Greek rhetoric and oratory. *Three times a week (first half-year)*. PROFESSOR HEIDEL.]

[VI.[2] THE GREEK LYRIC POETS,—including selections from Pindar and Bacchylides. *Three times a week (second half-year)*. PROFESSOR HEIDEL.]

Courses V. and VI. are elective for those who have taken Course II. They are omitted in 1915–16.

VII. AESCHYLUS,—Prometheus Bound. SOPHOCLES,—Oedipus the King, and Antigone. Lectures and collateral reading on the Greek theatre *(first half-year)*. EURIPIDES,—Iphigenia among the Taurians, and Cyclops. ARISTOPHANES,

—Frogs. Collateral reading on the Greek drama *(second half-year). Mon., Wed., Fri., at 8.* 37 F. H. PROFESSOR HEIDEL. (I.)

Course VII. is elective for those who have taken Course II.

[VIII.[1] NEW TESTAMENT IN GREEK. *Twice a week (first half-year).* PROFESSOR HEWITT.]

Course VIII. is elective for those who take, or have taken, Course II. It is omitted in 1915–16.

IX.[1] THEOCRITUS AND LUCIAN. *Tu., at 12; Sat., at 10 (first half-year).* 12 S. C. PROFESSOR HEWITT. (XI.)

Course IX. is elective for those who have taken Course II.

[X. GREEK CIVILIZATION. Lectures and collateral reading on the political institutions, the art, religion, and scientific thought of ancient Greece in relation to modern civilization. Knowledge of Greek is not required. *Three times a week.* PROFESSOR HEIDEL.]

Course X. is elective for Juniors. It is omitted in 1915–16.

XI.[1] PLATO, — Republic. *Mon., Wed., Fri., at 12 (first half-year).* 32 F. H. PROFESSOR HEIDEL. (V.)

XII.[2] GREEK LITERARY CRITICISM. Aristotle's Poetics, the treatise On the Sublime, and selections from Dionysius of Halicarnassus. *Mon., Wed., Fri., at 12 (second half-year).* 32 F. H. PROFESSOR HEIDEL. (V.)

Courses XI. and XII. are elective for those who have taken Courses V. and VI., or Course VII.

HEBREW.†

ELEMENTARY COURSE. Davidson's Grammar. The verbal and nominal forms and the elements of syntax are thoroughly mastered. Careful attention is given to the acquisition of a practical, working vocabulary. Short sentences in Hebrew are read with every lesson, accompanied by exercises in Hebrew

† Students may receive credit for work in this department pursued at the Berkeley Divinity School.

composition *(first half-year)*. Kittel's Hebrew Bible. The Brown, Driver, and Briggs Hebrew Lexicon. Selections from Genesis. The Book of Ruth. Sight reading *(second half-year)*. *Mon., Tu., Th., Fri., at 12.* Berkeley Divinity School. PROFESSOR VANDERBOGART.

GERMAN.

PROFESSOR FIFE; ASSOCIATE PROFESSOR CURTS.

I. ELEMENTARY GERMAN. Bagster-Collins,—First Book in German; Nichol's Easy German Reader; Heyse,—Anfang und Ende; Hauff,—Das kalte Herz. Exercises in conversation and composition, based on the texts read. SECTION 1, *Mon., Wed., Fri., at 11;* SECTION 2, *Tu., Th., Sat., at 11.* 11 F. H. ASSOCIATE PROFESSOR CURTS. (X.)

Candidates for the degree of B. S. are required to complete the equivalent of I. and II. German, as well as I. and II. French. Such of these courses as they have not pursued and passed in before entering college, they must take as soon as practicable after entering.

II. A. INTERMEDIATE GERMAN. Heine,—Die Harzreise; Schiller,—Wilhelm Tell; K. F. Meyer,—Der Schuss von der Kanzel; G. Frenssen,—Peter Moor. A part of this reading is done at sight. The course includes a review of elementary grammar, with paraphrases and prose composition. Bacon's Elements of German. Truscott & Smith,—Elementary German Composition. *Tu., Th., Sat., at 11.* 39 F. H. PROFESSOR FIFE. (X.)

Course II. A is elective for those who have taken Course I. in college.

II. B. INTERMEDIATE GERMAN. Raabe,—Die schwarze Galeere; Schiller,—Die Jungfrau von Orleans; Heine,—Die Harzreise; Storm,—Der Schimmelreiter. A review of elementary grammar, with paraphrases and prose composition. A considerable part of the class exercises are conducted in German. Bacon's Elements of German. Pope's Writing and Speaking German. *Mon., Wed., Fri., at 12.* 11 F. H. ASSOCIATE PROFESSOR CURTS. (V.)

Course II. B is elective for those who have completed the entrance requirements in elementary German.

*III. GERMAN DAILY LIFE AND INSTITUTIONS. The aim of this course is to train the student in familiar and colloquial German in speech and writing, at the same time introducing him to some of the more familiar German public and private institutions. Practice is based in part on Evans and Merhaut's Charakterbild von Deutschland and Leopold's Im deutschen Reiche, with the constant use of Perthes's Taschenatlas vom deutschen Reich and parallel readings from the history of modern Germany. Lectures and pictures illustrating German life and institutions. All class exercises are conducted in German. *Tu., Th., at 12.* 39 F. H. PROFESSOR FIFE. (XI.)

Course III. is elective, with the permission of the instructor, for those who have taken Courses I. and II.A or II.B.

IV. THE CLASSICAL PERIOD. Lessing, Goethe, and Schiller are taken up in the order named, and a brief study is made of each, based on lectures, accompanied by parallel readings from their works. Regular written themes form a part of the course. During 1915–1916 the following are read in class: Lessing,—Emilia Galotti; Goethe,—Hermann und Dorothea, Faust I.; Schiller,—Wallenstein. *Tu., Th., Sat., at 9.* 39 F. H. PROFESSOR FIFE. (VIII.)

Course IV. is elective for those who have taken Courses I. and II.A or II.B.

[V.[1] NINETEENTH CENTURY DRAMA. Rapid readings from dramatic masterpieces by Kleist, Grillparzer, Hebbel, and Ludwig, with lectures on the development of the German drama in the nineteenth century, and written themes. *Three times a week (first half-year).* ASSOCIATE PROFESSOR CURTS.]

VI.[1] THE GERMAN NOVELLE. The development of this peculiarly German form of narrative literature is traced from the Romantic period through the nineteenth century. Rapid readings from E. T. A. Hoffmann, Eichendorff, Mörike, Keller, Storm, Heyse, K. F. Meyer, and Rosegger. A part of this reading is done outside of class and is made the subject

of written themes. *Mon., Wed., Fri., at 8 (first half-year).* 36 F. H. ASSOCIATE PROFESSOR CURTS. (I.)

[VII.[2] CONTEMPORARY GERMAN LITERATURE (from 1880 to 1915). A study of the tendencies in present-day literature, especially in the drama. Lectures and rapid readings, with written themes. *Three times a week (second half-year).* ASSOCIATE PROFESSOR CURTS.]

VIII.[2] HISTORICAL AND CRITICAL PROSE. Rapid readings in contemporary German historians and essayists. The course is designed as a further introduction to German culture, as well as an aid to those who desire greater proficiency in reading contemporary German prose. *Mon., Wed., Fri., at 8 (second half-year).* 36 F. H. ASSOCIATE PROFESSOR CURTS. (I.)

Courses V., VI., VII., and VIII., each of which is given in alternate years only, are elective for those who have taken Courses I. and II. A or II. B. Courses V. and VII. are omitted in 1915–16.

[*IX.[1] GERMAN PROSE COMPOSITION AND ADVANCED GRAMMAR. This course begins with an intensive review of the elementary phonology and forms of the language, followed by a study of German syntax, and an introduction to historical grammar. Regular class exercises in German prose composition, supplemented by original themes. This course is intended especially for those preparing to teach German. *Three times a week (first half-year).* PROFESSOR FIFE.]

Course IX. is elective, with the permission of the instructor, for those who have taken Courses I., II. A or II. B, and III. It alternates with Course XII., and is omitted in 1915–16.

X.[2] HISTORY OF GERMAN LITERATURE, I. From the earliest beginnings to the end of the sixteenth century. A course of lectures, supplemented by parallel readings from an anthology and by themes. All lectures and class exercises are conducted in German. *Mon., Wed., Fri., at 9 (second half-year).* 36 F. H. PROFESSOR FIFE. (II.)

[XI.[2] HISTORY OF GERMAN LITERATURE, II. From the beginning of the seventeenth century to the present time. A

course of lectures, supplemented by parallel readings from an anthology and by themes. All lectures and class exercises are conducted in German. *Three times a week (second half-year).* PROFESSOR FIFE.]

Courses X. and XI., which are given in alternate years, are elective for those who have taken Courses I. and II. A or II. B, and who take, or have taken, Course III. Course XI. is omitted in 1915–16.

XII.[1] MIDDLE HIGH GERMAN. The course is a brief introduction to the early classical period, and is literary rather than linguistic in its aims. The phonology and forms of the period are presented in a series of lectures. Readings from Hartmann von Aue's Der arme Heinrich, the Nibelungenlied and Walther von der Vogelweide. *Mon., Wed., Fri., at 9 (first half-year).* 36 F. H. PROFESSOR FIFE. (II.)

Course XII. is elective for those who have taken Courses I., II. A or II. B, and III., or their equivalent. It alternates with Course IX.

ROMANCE LANGUAGES.

PROFESSOR KUHNS; ASSOCIATE PROFESSOR MANN; DOCTOR SCHEIFLEY.

I. ELEMENTARY FRENCH. Olmsted's Elementary French Grammar. Kuhns's French Reading for Beginners. Bruno,—Le Tour de la France; Laurie,—Une Année de Collège à Paris. Part of this reading is done at sight. There is also personal drill in pronunciation. SECTION 1, *Mon., Wed., Fri., at 10.* 11 F. H. SECTION 2, *Tu., Th., Sat., at 11.* 14 F. H. SECTION 3, *Tu., Th., Sat., at 8.* 11 F. H. SECTION 4, *Tu., Th., Sat., at 9.* 11 F. H. DOCTOR SCHEIFLEY. (III.)

Candidates for the degree of B. S. must complete the equivalent of Courses I. and II. in French, as well as I. and II. in German. Such of these courses as they have not pursued and passed in before entering college, they must take as soon as practicable after entering.

II. INTERMEDIATE FRENCH. Fraser and Squair's French Grammar, Part II. This course has for its main object the study of advanced grammar and composition, in connection

with the reading of a large amount of French. Special attention is paid to sight-reading in class, and for each half-year collateral reading is given, to be prepared by the student himself for examination. On Tuesdays Duval's Histoire de la Littérature Française is read and is supplemented by informal lectures. SECTION 1, *Tu., Th., Sat., at 8.* 14 F. H. SECTION 2, *Mon., Wed., Fri., at 9.* 11 F. H. SECTION 3, *Tu., at 8, or Mon., at 9; Th., Sat., at 10.* 14 F. H. PROFESSOR KUHNS and ASSOCIATE PROFESSOR MANN. (VII.)

Course II. is elective for those who have taken Course I.

*III. FRENCH CONVERSATION. The object of this course is to give practice in writing, speaking, and hearing French. During the year several informal lectures on travel in Europe are given in French. These lectures are illustrated by lantern slides. *Th., at 8.* 39 F. H. PROFESSOR KUHNS. (VII.)

Course III. is elective, with the permission of the instructor, for those who take, or have taken, Course II.

*IV. FRENCH LITERATURE. French literature in the seventeenth, eighteenth, and nineteenth centuries. The masterpieces of Corneille, Racine, Molière, Boileau, La Fontaine, Rousseau, Chateaubriand, Lamartiné, Alfred de Musset, Victor Hugo, Balzac, and others are read and discussed in French, but not translated. Frequent lectures are given by the instructor on the general state of literature in France in the seventeenth, eighteenth, and nineteenth centuries. At each recitation translation from English into French is made. In addition, each member of the class must make, twice during the year, a more extensive study of some one particular writer. The class exercises are largely conducted in French. *Wed., Fri., at 8.* 39 F. H. PROFESSOR KUHNS. (I.)

Course IV. is elective, with the permission of the instructor, for those who take, or have taken, Course III.

[V. OLD FRENCH. The work consists in the translation of Old French texts, and the study of Old French literature, with special reference to its influence on the literatures of the other nations of Western Europe. Lectures, collateral readings, and reports form part of the work. *Twice a week.* PROFESSOR KUHNS.]

Course V. is elective for those who have taken Courses I.–IV. It is omitted in 1915–16.

*VI. FRENCH. This course is especially designed to meet the needs of those who intend to teach French. It includes the study of grammar and composition, phonetics of French pronunciation, methods of teaching, bibliography, and other appropriate topics. All class exercises are conducted in French. *Tu., at 10.* 39 F. H. PROFESSOR KUHNS. (IX.)

Course VI. is elective, with the permission of the instructor, for those who have taken Courses I.–IV.

[VII. ELEMENTARY ITALIAN. Grandgent's Italian Grammar. De Amicis, Cuore; Pellico, Le mie Prigioni; Guida degli Stati Uniti per l'Immigrante Italiano. In addition to the regular work by the class in translating modern prose, the instructor translates and interprets to the class the Inferno and the Purgatorio of Dante, a portion of each recitation being devoted to this exercise. As a preparation for this part of the work, the class is required to read Gardner's Dante (in Temple Primers). *Twice a week.* PROFESSOR KUHNS.]

Course VII. is elective for Sophomores who have taken I. French. It is omitted in 1915–16.

VIII. ADVANCED ITALIAN. Dante, Petrarch, Tasso, Ariosto. Lectures on the history of Italian literature. *Wed., Fri., at 10.* 39 F. H. PROFESSOR KUHNS. (III.)

Course VIII. is elective for those who have taken Course VII.

IX. DANTE IN ENGLISH. The New Life and the Divine Comedy are read in English translations. The instructor interprets these books in the light of the history, science, theology, and philosophy of the Middle Ages, comparing Dante with Homer, Shakespeare, and other world-poets, and showing his influence on modern thought, art, and literature. *Th., at 10.* 39 F. H. PROFESSOR KUHNS. (IX.)

Course IX. is elective for Juniors.

X. ELEMENTARY SPANISH. Grammar, conversation, and reading of simple Spanish prose. SECTION 1, *Mon., Wed., Fri., at 8.* 11 F. H. SECTION 2, *Tu., Th., at 12; Fri., at 2.*

11 F. H. SECTION 3, *Mon., Wed., Fri., at 10.* 14 F. H. ASSOCIATE PROFESSOR MANN and DOCTOR SCHEIFLEY. (XI.)

Course X. is elective for Sophomores who have taken I. French.

[XI. ADVANCED SPANISH. A course in Spanish literature, with especial emphasis on the chief writers. *Twice a week.* ASSOCIATE PROFESSOR MANN.]

Course XI. is elective for those who have taken Course X. It is omitted in 1915–16.

[XII. OLD PROVENÇAL. This is intended as a companion course to V. French, and is literary rather than linguistic in its aims. The work consists in the study of texts, lectures on the life and poetry of the troubadours and their influence on early European literature, collateral readings, and a brief consideration of Provençal philology. *Twice a week.* ASSOCIATE PROFESSOR MANN.]

Course XII. is elective for those who have taken either Courses I.–IV., or Courses I., II., and X. It is omitted in 1915–16.

ENGLISH LITERATURE.

PROFESSOR WINCHESTER; ASSOCIATE PROFESSOR GILLET.

I. GENERAL INTRODUCTION TO ENGLISH LITERATURE. An outline of the history of the literature, with class-room reading and discussion of representative works illustrative of different varieties and periods of English Literature. Stopford Brooke's History of English Literature is used as a text-book, with Cunliffe, Pyre, and Young's Century Readings for a Course in English Literature. SECTION 1, *Mon., Wed., Fri., at 12.* SECTION 2, *Mon., at 12; Tu., Th., at 10.* SECTION 3, *Mon., at 12; Tu., Th., at 11.* 14 F. H. (sections in 12 F. H.). PROFESSOR WINCHESTER and ASSOCIATE PROFESSOR GILLET.

Course I. is elective for Sophomores. (V.)

II. SIX PLAYS OF SHAKESPEARE. *Mon., Wed., Fri., at 9.* 14 F. H. PROFESSOR WINCHESTER. (II.)

[III. ENGLISH POETRY, 1789–1832. Burns, Wordsworth, Coleridge, Scott, Byron, Shelley, Keats. *Three times a week.* PROFESSOR WINCHESTER.]

[IV. VICTORIAN LITERATURE. Carlyle, Ruskin, Browning, Tennyson. *Three times a week.* PROFESSOR WINCHESTER.]

[V. STUDIES IN SHAKESPEARE. *Three times a week.* ASSOCIATE PROFESSOR GILLET.]

Courses II.–V. are elective for those who have taken Course I. Courses III.–V. are omitted in 1915–16.

VI. LITERATURE OF THE LATTER HALF OF THE NINETEENTH CENTURY. Stevenson, Newman, Arnold, Rossetti, Morris, Swinburne, and Meredith. *Mon., Wed., Fri., at 10.* 12 F. H. ASSOCIATE PROFESSOR GILLET. (III.)

Course VI. is elective for those who have taken Course I. and one other course in the department, or by special permission of the instructor.

*VII. LITERATURE OF THE PERIOD OF QUEEN ANNE. Defoe, Steele, Addison, Swift, Bolingbroke, Pope. *Mon., Wed., at 11.* 23 F. H. PROFESSOR WINCHESTER. (IV.)

[*VIII. ESSAYISTS AND REVIEWERS OF THE EARLY NINETEENTH CENTURY. Jeffrey, Hazlitt, De Quincey, Lamb, Wilson, Hunt. *Twice a week.* PROFESSOR WINCHESTER.]

[*IX. NEW ENGLAND LITERATURE, 1835–1885. Emerson, Longfellow, Lowell, Hawthorne, Whittier, Holmes. *Twice a week.* PROFESSOR WINCHESTER.]

Courses VII.–IX. are elective, with the permission of the instructor, for those who have taken Course I., either Course II. or Course III., and Course X. Courses VIII. and IX. are omitted in 1915–16.

X. ELEMENTS OF LITERARY CRITICISM. Discussion of the essential elements and the various forms of literature, with practical exercises in the application of critical principles. Winchester's Principles of Literary Criticism is used as a text-book. *Fri., at 11.* 14 F. H. PROFESSOR WINCHESTER. (IV.)

Course X. is elective for those who have taken Course I.

A course in Public Speaking, elective for Seniors, is given under the direction of Mr. Wetzel and Professor Winchester. (See page 70.)

ENGLISH LANGUAGE.

PROFESSOR MEAD; ASSOCIATE PROFESSOR CONLEY.

I. ENGLISH COMPOSITION. A. Text-books: Young's Freshman English and Woolley's Handbook of Composition. Each member of the class is required to write numerous themes, making practical application of various rhetorical principles. These themes are criticised by the instructor and discussed with the pupil at hours specially appointed. Attendance at consultation hour is required.

B. Considerable collateral reading is assigned and furnishes models of the various types of writing. Monthly written tests, at hours and dates to be announced. SECTION 1, *Tu.*, *Th.*, *at 8.* 29 F. H. SECTION 2, *Tu.*, *Th.*, *at 10.* 29 F. H. SECTION 3, *Tu.*, *Th.*, *at 11.* 28 F. H. SECTION 4, *Wed.*, *Fri.*, *at 9.* 29 F. H. ASSOCIATE PROFESSOR CONLEY. (IX.)

Course I. is required of Freshmen. It counts as *three hours* a week for the year.

II. ENGLISH COMPOSITION. Sophomores are required to write six essays during the year on subjects approved by the instructor. All the written work receives the personal attention of the instructor, and appointments for individual criticism are made for each member of the class. All essays are required to conform in details to the precepts laid down in Woolley's Handbook of Composition. PROFESSOR MEAD.

Course II. is required of Sophomores who have passed in I. English Language; it is not elective for those who have not passed in that course. The essays are rated as the equivalent of one hour's work per week for the year; this hour is included in the minimum quota (15) prescribed for the year.

III. ADVANCED ENGLISH COMPOSITION. A study of various types of composition, with constant practice in theme-writing. Each member of the class is required to present on an average at least one thousand words per week. The written work is

criticised in the class-room, and also at hours appointed by the instructor for personal conference. Wednesday at 3 is reserved for criticism. All papers notably deficient in structure or style are required to be rewritten. *Mon., at 3 (counting as two hours).* 29 F. H. PROFESSOR MEAD. (VI.)

Course III. is elective for Juniors.

IV. OLD ENGLISH (Anglo-Saxon). This course is fundamental to the study of the English language and Early English literature. The principal reading at the outset is in the Gospel of St. John. The grammar is drawn from Bright's Anglo-Saxon Reader, with copious illustrations and explanations based upon the texts read. In the second half-year the reading is mainly in Old English poetry and in prose illustrating important periods of Old English history. Informal lectures, with a reading of Skeat's Primer of English Etymology, explain the relations of the Old English language to modern English. The main features of Old English civilization are discussed in lectures illustrated by lantern slides. *Wed., Fri., at 12.* 29 F. H. PROFESSOR MEAD. (V.)

Course IV. is elective for Juniors, and, with the permission of the instructor, for Sophomores; but they are advised not to elect this course unless they have already formed habits of accuracy in the study of language.

[V. THE AGE OF CHAUCER. A study of fourteenth century literary and social life as reflected in Chaucer's Canterbury Tales, Piers the Plowman, and the verse romances, with an introductory course in the writers preceding Chaucer. Lectures discussing typical aspects of social, religious, industrial, and court life, with assigned readings, and class discussions. *Twice a week.* PROFESSOR MEAD.]

Course V. is elective for those who have taken Course IV. It is omitted in 1915–16.

VI. HISTORY OF THE ENGLISH LANGUAGE. The aim of this course is to show in lectures and class discussions how English life and culture are illustrated by changes in the meaning of words since the Norman Conquest. Special attention is given to the formation of a working English vocabulary.

As far as possible the work is brought into connection with the study of literature. The collateral work involves the use of various books of reference, and in particular of Krapp's Modern English, Trench's English Past and Present, and Skeat's Concise Etymological Dictionary. *Tu.*, *Th.*, *at 11.* 29 F. H. PROFESSOR MEAD. (X.)

Course VI. is elective for Juniors.

VII. ARTHURIAN ROMANCES. The sources and history of the Arthurian Romances. Class readings in some of the better known forms of Arthurian story, such as Tennyson's Idylls of the King, and their sources, and lectures on the older literature that furnished material to Tennyson and other modern poets. The social conditions out of which the romances grew receive special attention, and the life of the Middle Ages is discussed in lectures, illustrated by lantern slides. *Tu., Th., at 12.* 29 F. H. PROFESSOR MEAD. (XI.)

Course VII. is elective for Juniors.

[VIII. ENGLISH FICTION. The historical development of the novel, with a brief introductory study of the theory of narrative composition. Perry,—A Study of Prose Fiction; Cross,—Development of the English Novel. Lectures, assigned readings, class papers, and discussions. PROFESSOR MEAD.]

Course VIII. is elective for Juniors. It is omitted in 1915–16.

PUBLIC SPEAKING.

MR. WETZEL.

PUBLIC SPEAKING. Instruction in the course in public speaking is given in three sections, one for each of the three upper classes. The courses are so arranged as to give the student a systematic and progressive course of training in the art of oral expression and delivery. Special training is provided for those who enter the various contests in public speaking.

A. SOPHOMORES. Special attention is given to vocal training, articulation, and pronunciation. This course includes systematic practice in oral expression and delivery, with special

reference to the principles of gesture and to the fundamental characteristics of expression, viz., force, touch, change of pitch, inflection, movement, and tone-color. Section 1, *Tu.*, *at* 10; Section 2, *Tue.*, *at* 2; Section 3, *Tue.*, *at* 3. Room 3, F. H.

3. [Omitted.] Argumentation and Debate. Lectures on the principles of debate, the laws of argumentation, and the art of debate. Study of selected models. Regular debates before the class on existing questions, for criticism in arrangement and presentation of arguments. *Tu.*, *at* 12. Room 3, F. H.

Course 3 is elective for those who have shown efficiency in Course 2, or who have been in university debating teams.

4. Orations. A course in the composition and delivery of the different forms of public address. The student is required to deliver one original speech before the class each month. These are criticised by Professor Winchester before being delivered. *Mo.*, *at* 10. Room 3, F. H.

HISTORY.

Professor Dutcher, Mr. Warren.

1. English History. The History of England from the earliest times to the present day. Cross's History of England and Greater Britain is used as the text-book, and there is required, in addition, the reading of Cheyney's Introduction to the Industrial and Social History of England, Masterman's History of the British Constitution, and a few selections from Adams and Stephens's Select Documents of English Constitutional History. History Lectures and recitations. *Mon., Wed., Fri., at* 11. F. H. Professor Dutcher. L.

Course L is elective for Freshmen who have credit for one unit in history on admission. This course is the only one in the second required group of studies (see p. 107) open to Freshmen. Owing to its elementary character this course should be elected not later than the Sophomore year. Course L, or its equivalent, is prerequisite to the advanced courses in history, except Course IX.

Students electing history as their major study must take Course I. not later than the Sophomore year, and must complete the twelve hours required for a major in this department by taking either three courses in American history, or three courses in European history.

N. B. For Courses II., III., IV., V., VI., and X., ability to read at least one modern language besides English is almost indispensable.

[II. HISTORY OF THE EXPANSION OF EUROPE. First semester: Portuguese, Spanish, French, Dutch, and English exploration, trade, and colonization in America, Africa, and Asia from the time of Henry the Navigator to the middle of the eighteenth century, with special attention to the administrative systems, the regulation of trade and industry, the treatment of weaker races, the activities of Christian missionaries, and similar problems. Second semester: a similar study of the period since the middle of the eighteenth century, with special reference to the English in India, Canada, Australia, and South Africa, to the Dutch in the East Indies, to the liberation of South America, and to the partition of Africa. Lectures, recitations, and essays. *Three times a week.* PROFESSOR DUTCHER.]

Course II. is elective for Sophomores who have attained a grade of three in Course I., and for Juniors and Seniors who have taken any course in history. It is omitted in 1915–16.

III. ANCIENT HISTORY. First semester: after a brief survey of the earliest times, the history of Greece from the beginning of the Persian wars, and of Rome from the beginning of the Punic wars, will be carried to 133 B. C. Second semester: the history of the Roman republic after 133 B. C., of the Roman empire, and of the so-called Dark Ages to the death of Charles the Great, 814 A. D., with special attention to the rise of Christianity and of Mohammedanism. Botsford's History of the Ancient World, supplemented by Bury's History of Greece, Heitland's Short History of the Roman Republic, and other books on special periods. Lectures, recitations, and essays. *Mon., Wed., Fri., at 10.* 15 F. H. PROFESSOR DUTCHER. (III.)

Course III. is elective for Sophomores who have attained a grade of three in Course I., and for Juniors and Seniors who have taken any course in history or who are taking their major in Greek or Latin. By special permission of the instructor, either semester may be elected separately, though it is strongly advised that the course be taken as a whole.

[IV. MEDIAEVAL HISTORY. First semester: from the death of Charles the Great, 814 A. D., to the close of the thirteenth century, with the Empire, the Papacy, and France as the central factors, and with special attention to feudalism, the crusades, and the rise of the towns. Second semester: the development of culture and of the vernacular literatures, the rise of the universities, the Renaissance, the age of discovery, the Protestant Reformation, the Counter-Reformation, and the wars of religion, to the treaties of Westphalia, covering approximately from 1300 to 1660. Emerton's Mediaeval Europe and Hassall's Periods of European History, volumes 1–5. Lectures, recitations, and essays. *Three times a week.* MR. WRISTON.]

Course IV. is elective for Sophomores who have attained a grade of three in Course I., and for Juniors and Seniors who have taken any course in history. Courses III. and IV. are given in alternate years, Course IV. being omitted in 1915–16.

V. MODERN EUROPEAN HISTORY. First semester: the age of Louis XIV., the rise of Russia and of Prussia, and the enlightened despotism, the French Revolution, and the Napoleonic era. Second semester: the Holy Alliance, the revolutionary movements, the development of constitutional government, the unification of Germany and of Italy, with special attention to the more important events and movements since 1870. Stephens's Syllabus of Modern European History, Robinson and Beard's Readings in Modern European History, Hazen's Europe since 1815, and other books on special periods. Lectures, recitations, and essays. *Mon., Wed., Fri., at 12.* 15 F. H. PROFESSOR DUTCHER. (V.)

Course V. is elective for Sophomores who have attained a grade of three in Course I., and for Juniors and Seniors who

have taken any course in history, or who are taking their major in German or romance languages. In 1915–16 the second semester may be elected separately with the permission of the instructor.

*VI. HISTORY SEMINARY. During the year 1915-16, special topics in European history during the Napoleonic period are studied. This course is intended to afford training in historical method. Topics for individual research and report are regularly assigned and the work of the student is subject to the constant supervision and criticism of the instructors. At the close of the year, each student is required, as a test of his ability to do historical research and to present his results in a correct and lucid manner, to prepare an essay or thesis of considerable length upon some topic studied in the course. *Wed., 7–10 p. m., counting as three hours for the year.* 10 F. H. PROFESSOR DUTCHER and MR. WRISTON.

Course VI. is elective, with the permission of the instructors, for Seniors who have shown, in earlier courses in the department, ability to do advanced work in history. For the year 1915–16, permission is given only to those who have taken or are taking Course V., and who are able to read French or some other modern language.

VII. UNITED STATES HISTORY, 1750–1829. First semester: the French and Indian war, the English colonial system and the struggle precipitated by the attempts of George III. and his ministers to remodel it, the war for independence, the confederation, the framing and ratification of the state and federal constitutions. Second semester: the first six presidents, their personalities, problems, and policies, the problem of relations with Europe, the war of 1812, the Monroe doctrine, national expansion, growth of democracy. The important constitutional, political, economic, and social developments are emphasized. Becker's Beginnings of the American people, Channing's History of the United States, Vol. III., Johnson's Union and Democracy, and other works. Lectures, recitations, and essays. *Tu., Th., Sat., at 10.* 15 F. H. MR. WRISTON. (IX.)

Course VII. is elective for those who have taken any course in history or economics. It will probably be omitted in 1916–17.

VIII. UNITED STATES HISTORY, 1829–1913. First semester: the personalities, policies, and achievements of the more important presidents and political leaders, and the important constitutional, political, economic, and social developments to the outbreak of the civil war. Second semester: the civil war, reconstruction, the new economic and social problems, the United States as a colonial and world power. Bassett's Short History of the United States, Stanwood's History of the Presidency, and Dewey's Financial History of the United States. Lectures, recitations, and essays. *Tu., Th., Sat., at 8.* 15 F. H. MR. WRISTON. (VII.)

Course VIII. is elective for those who have taken any course in history or economics.

[IX. AMERICAN GOVERNMENT. First semester: a survey of the development of constitutional government in America, followed by a study of the origin, development, present condition, and methods of operation of the several organs of the federal government; the rise, organization, and methods of political parties. Second semester: the growth of the state constitutions, and the organization and operation of the state governments; local government and municipal administration; and the rights and obligations of citizens. In the treatment of the various topics, the significance of the historical development is constantly emphasized, comparisons with other countries are made, and discussion is turned from time to time to the fundamental problems of systematic political theory. Beard's American Government and Politics, Munro's Government of American Cities, and collateral readings. Discussions and reports. *Three times a week.* MR. WRISTON.]

Course IX. is elective for Sophomores who have taken Course I., and for Juniors and Seniors. It is intended primarily for those who plan to take only a single course, other than Course I., in the department. Only one hour credit will be given for this course, if taken in addition to Course VII. or Course VIII. This course alternates with Course X.

X. COMPARATIVE GOVERNMENT. First semester: a systematic study of the constitutions, of the national, local, and municipal systems of administration, of political parties, and of

the functions of government in Great Britain, France, and Germany. Second semester: a survey of the other European countries, of the Latin-American countries, of self-governing dependencies, of India, China, and Japan, with some consideration of colonial administration. The aim of the course is to present the development of constitutional government outside of the United States, and to study the internal problems of the more important countries, with constant attention to American parallels and to the problems of systematic political theory. The course is intended to give a clearer knowledge of the contemporary conditions of other countries, and to develop broader political views. Ogg's Governments of Europe, Munro's Government of European Cities, and collateral readings. Discussions and reports. *Mon., Wed., Fri., at 8.* 12 F. H. MR. WRISTON. (I.)

Course X. is elective for Sophomores who have attained a grade of three in Course I., and for Juniors and Seniors who have taken any course in history. Courses IX. and X. are given in alternate years, Course IX. being omitted in 1915–16. Courses IX. and X. are not open to those who took Course IX. in 1912–13 or 1913–14.

ECONOMICS AND SOCIAL SCIENCE.

PROFESSOR TUTTLE; MR. RICH.

I. PRINCIPLES OF ECONOMICS. This course gives the student a scientific analysis of modern industrial society, and acquaints him with the principles of political economy and correct methods of analysis. The aim is to give, first, discipline in habits of scientific thinking in regard to all social phenomena, and, second, perspective and a basis of sound knowledge for further and more intensive study in the general field of economics and social science, and for an intelligent exercise of the duties of citizenship. The means of instruction in this and in the other courses in economics are text-books, lectures, discussions, reports, collateral reading, and frequent written tests. *Tu., Th., Sat., at 9.* 15 F. H. PROFESSOR TUTTLE. (VIII.)

Course I. is elective for Sophomores.

*II. ADVANCED ECONOMICS. Critical studies in modern economic theory, with selected readings from the works of leading economists. Particular attention is given to theories of value and distribution. Earlier theories of distribution are examined in the light of contemporary economic conditions. Socialism and Henry George's Progress and Poverty are studied in relation to earlier and current theories of value and distribution. The conditions of economic progress in the light of economic analysis also receive attention. *Tu., Th., Sat., at 8.* 12 F. H. PROFESSOR TUTTLE. (VII.)

Course II. is elective, with the permission of the instructor, for those who have taken Course I.

[III. CORPORATIONS, TRUSTS, AND MONOPOLIES. The historical development and analysis of the different forms of industrial organization, including the single proprietorship, partnership, joint-stock company, and corporation, and the later developments, such as the pool, trust, holding company, consolidated corporation, and "community of interest." Critical study of the economic and social effects of great combinations, illustrated by documents. The elements of corporation finance, with especial reference to organization and management. The evils of corporate organization, such as fraudulent promotion, over-capitalization, and manipulation. Public policy toward corporations. Conditions insuring progress in method and organization. The evil effects of monopoly, and the problems of control. Legislation in the United States and other countries, and important legal decisions. Public-service corporations; public utilities commissions. The principles of transportation and railroad problems, economic, social and legal; the Interstate Commerce Commission. *Three times a week.* PROFESSOR TUTTLE.]

Course III. is elective for those who have taken Course I. It is given in alternate years with Course IV., and is omitted in 1915–16.

IV. MONEY AND BANKING. The theory of money, and the principles of monetary circulation. The origin and development of money; coinage; monometallism and bimetallism. The monetary history of the United States, England, France, and

Germany. The production of the precious metals, and its relation to monetary policy. International bimetallism. The evolution of the gold standard. The principles of credit and the nature and monetary functions of credit instruments. The theory and history of government issues of paper currency, and especially the "greenback" experiment in the United States. The theory and history of banking, and the evolution of bank-note currency and deposit currency. The development of the banking systems of France, England, Germany, and the United States. Monetary and banking problems of the United States. Particular attention is given to the study of the Federal Reserve System. *Tu., Th., Sat., at 11.* 15 F. H. PROFESSOR TUTTLE. (X.)

Course IV. is elective for those who have taken Course I. It is given in alternate years with Course III., and will be omitted in 1916–17.

[V. PUBLIC FINANCE. This course covers, in a general manner, the entire field of public finance, but pays special attention to taxation. Public expenditures, revenues from various sources, public debts, and budgets will be studied with reference both to theory and to the practice of various nations. *Three times a week.* MR. RICH.]

Course V. is elective for those who have taken Course I. It is given in alternate years with Course VI., and is omitted in 1915–16.

*VI. INTERNATIONAL TRADE AND TARIFF HISTORY. After a consideration of the theory of international trade, the tariff policy of various European nations and of the United States is studied. *Tu., Th., Sat., at 9.* 12 F. H. MR. RICH. (VIII.)

Course VI. is elective, with the permission of the instructor, for those who have taken Course I. It is given in alternate years with Course V., and will be omitted in 1916–17.

VII. LABOR PROBLEMS. The course begins with a brief survey of the Industrial Revolution and the rise of the factory system. The trade union movement is then studied, and various present-day problems considered in their relation to unionism. The work is carried on by means of lectures, discussions in class room, and frequent written tests on assigned

criticised in the class-room, and also at hours appointed by the instructor for personal conference. Wednesday at 3 is reserved for criticism. All papers notably deficient in structure or style are required to be rewritten. *Mon., at 3 (counting as two hours).* 29 F. H. PROFESSOR MEAD. (VI.)

Course III. is elective for Juniors.

IV. OLD ENGLISH (Anglo-Saxon). This course is fundamental to the study of the English language and Early English literature. The principal reading at the outset is in the Gospel of St. John. The grammar is drawn from Bright's Anglo-Saxon Reader, with copious illustrations and explanations based upon the texts read. In the second half-year the reading is mainly in Old English poetry and in prose illustrating important periods of Old English history. Informal lectures, with a reading of Skeat's Primer of English Etymology, explain the relations of the Old English language to modern English. The main features of Old English civilization are discussed in lectures illustrated by lantern slides. *Wed., Fri., at 12.* 29 F. H. PROFESSOR MEAD. (V.)

Course IV. is elective for Juniors, and, with the permission of the instructor, for Sophomores; but they are advised not to elect this course unless they have already formed habits of accuracy in the study of language.

[V. THE AGE OF CHAUCER. A study of fourteenth century literary and social life as reflected in Chaucer's Canterbury Tales, Piers the Plowman, and the verse romances, with an introductory course in the writers preceding Chaucer. Lectures discussing typical aspects of social, religious, industrial, and court life, with assigned readings, and class discussions. *Twice a week.* PROFESSOR MEAD.]

Course V. is elective for those who have taken Course IV. It is omitted in 1915–16.

VI. HISTORY OF THE ENGLISH LANGUAGE. The aim of this course is to show in lectures and class discussions how English life and culture are illustrated by changes in the meaning of words since the Norman Conquest. Special attention is given to the formation of a working English vocabulary.

As far as possible the work is brought into connection with the study of literature. The collateral work involves the use of various books of reference, and in particular of Krapp's Modern English, Trench's English Past and Present, and Skeat's Concise Etymological Dictionary. *Tu., Th., at 11.* 29 F. H. PROFESSOR MEAD. (X.)

Course VI. is elective for Juniors.

VII. ARTHURIAN ROMANCES. The sources and history of the Arthurian Romances. Class readings in some of the better known forms of Arthurian story, such as Tennyson's Idylls of the King, and their sources, and lectures on the older literature that furnished material to Tennyson and other modern poets. The social conditions out of which the romances grew receive special attention, and the life of the Middle Ages is discussed in lectures, illustrated by lantern slides. *Tu., Th., at 12.* 29 F. H. PROFESSOR MEAD. (XI.)

Course VII. is elective for Juniors.

[VIII. ENGLISH FICTION. The historical development of the novel, with a brief introductory study of the theory of narrative composition. Perry,—A Study of Prose Fiction; Cross,—Development of the English Novel. Lectures, assigned readings, class papers, and discussions. PROFESSOR MEAD.]

Course VIII. is elective for Juniors. It is omitted in 1915–16.

PUBLIC SPEAKING.

MR. WETZEL.

PUBLIC SPEAKING. Instruction in the course in public speaking is given in three sections, one for each of the three upper classes. The courses are so arranged as to give the student a systematic and progressive course of training in the art of oral expression and delivery. Special training is provided for those who enter the various contests in public speaking.

A. SOPHOMORES. Special attention is given to vocal training, articulation, and pronunciation. This course includes systematic practice in oral expression and delivery, with special

reference to the principles of gesture and to the fundamental characteristics of expression, viz.: pause, touch, change of pitch, inflection, movement, and tone-color. SECTION 1, *Wed., at 10;* SECTION 2, *Wed., at 2;* SECTION 3, *Wed., at 3.* Room B, F. H.

B. JUNIORS. Argumentation and Debate. Lectures on the principles of debate, the laws of argumentation, and the art of debate. Study of selected models. Regular debates before the class on leading questions, for criticism on arrangement and presentation of arguments. *Wed., at 12.* Room B, F. H.

Course B is elective for those who have shown efficiency in Course A, or who have been on university debating teams.

C. SENIORS. A course in the composition and delivery of the different forms of public address. The student is required to deliver one original speech before the class each month. These are criticised by Professor Winchester before being delivered. *Wed., at 11.* Room B, F. H.

HISTORY.

PROFESSOR DUTCHER; MR. WRISTON.

I. ENGLISH HISTORY. The History of England from the earliest times to the present day. Cross's History of England and Greater Britain is used as the text-book, and there is required, in addition, the reading of Cheyney's Introduction to the Industrial and Social History of England, Masterman's History of the British Constitution, and a few selections from Adams and Stephens's Select Documents of English Constitutional History. Lectures and recitations. *Mon., Wed., Fri., at 8.* 15 F. H. PROFESSOR DUTCHER. (I.)

Course I. is elective for Freshmen who have credit for one unit in history on admission. This course is the only one in the second required group of studies (see p. 107) open to Freshmen. Owing to its elementary character this course should be elected not later than the Sophomore year. Course I., or its equivalent, is prerequisite to the advanced courses in history, except Course IX.

Students electing history as their major study must take Course I. not later than the Sophomore year, and must complete the twelve hours required for a major in this department by taking either three courses in American history, or three courses in European history.

N. B. For Courses II., III., IV., V., VI., and X., ability to read at least one modern language besides English is almost indispensable.

[II. HISTORY OF THE EXPANSION OF EUROPE. First semester: Portuguese, Spanish, French, Dutch, and English exploration, trade, and colonization in America, Africa, and Asia from the time of Henry the Navigator to the middle of the eighteenth century, with special attention to the administrative systems, the regulation of trade and industry, the treatment of weaker races, the activities of Christian missionaries, and similar problems. Second semester: a similar study of the period since the middle of the eighteenth century, with special reference to the English in India, Canada, Australia, and South Africa, to the Dutch in the East Indies, to the liberation of South America, and to the partition of Africa. Lectures, recitations, and essays. *Three times a week.* PROFESSOR DUTCHER.]

Course II. is elective for Sophomores who have attained a grade of three in Course I., and for Juniors and Seniors who have taken any course in history. It is omitted in 1915–16.

III. ANCIENT HISTORY. First semester: after a brief survey of the earliest times, the history of Greece from the beginning of the Persian wars, and of Rome from the beginning of the Punic wars, will be carried to 133 B. C. Second semester: the history of the Roman republic after 133 B. C., of the Roman empire, and of the so-called Dark Ages to the death of Charles the Great, 814 A. D., with special attention to the rise of Christianity and of Mohammedanism. Botsford's History of the Ancient World, supplemented by Bury's History of Greece, Heitland's Short History of the Roman Republic, and other books on special periods. Lectures, recitations, and essays. *Mon., Wed., Fri., at 10.* 15 F. H. PROFESSOR DUTCHER. (III.)

Course III. is elective for Sophomores who have attained a grade of three in Course I., and for Juniors and Seniors who have taken any course in history or who are taking their major in Greek or Latin. By special permission of the instructor, either semester may be elected separately, though it is strongly advised that the course be taken as a whole.

[IV. MEDIAEVAL HISTORY. First semester: from the death of Charles the Great, 814 A. D., to the close of the thirteenth century, with the Empire, the Papacy, and France as the central factors, and with special attention to feudalism, the crusades, and the rise of the towns. Second semester: the development of culture and of the vernacular literatures, the rise of the universities, the Renaissance, the age of discovery, the Protestant Reformation, the Counter-Reformation, and the wars of religion, to the treaties of Westphalia, covering approximately from 1300 to 1660. Emerton's Mediaeval Europe and Hassall's Periods of European History, volumes 1–5. Lectures, recitations, and essays. *Three times a week.* MR. WRISTON.]

Course IV. is elective for Sophomores who have attained a grade of three in Course I., and for Juniors and Seniors who have taken any course in history. Courses III. and IV. are given in alternate years, Course IV. being omitted in 1915–16.

V. MODERN EUROPEAN HISTORY. First semester: the age of Louis XIV., the rise of Russia and of Prussia, and the enlightened despotism, the French Revolution, and the Napoleonic era. Second semester: the Holy Alliance, the revolutionary movements, the development of constitutional government, the unification of Germany and of Italy, with special attention to the more important events and movements since 1870. Stephens's Syllabus of Modern European History, Robinson and Beard's Readings in Modern European History, Hazen's Europe since 1815, and other books on special periods. Lectures, recitations, and essays. *Mon., Wed., Fri., at 12.* 15 F. H. PROFESSOR DUTCHER. (V.)

Course V. is elective for Sophomores who have attained a grade of three in Course I., and for Juniors and Seniors who

have taken any course in history, or who are taking their major in German or romance languages. In 1915–16 the second semester may be elected separately with the permission of the instructor.

*VI. HISTORY SEMINARY. During the year 1915-16, special topics in European history during the Napoleonic period are studied. This course is intended to afford training in historical method. Topics for individual research and report are regularly assigned and the work of the student is subject to the constant supervision and criticism of the instructors. At the close of the year, each student is required, as a test of his ability to do historical research and to present his results in a correct and lucid manner, to prepare an essay or thesis of considerable length upon some topic studied in the course. *Wed., 7–10 p. m., counting as three hours for the year.* 10 F. H. PROFESSOR DUTCHER and MR. WRISTON.

Course VI. is elective, with the permission of the instructors, for Seniors who have shown, in earlier courses in the department, ability to do advanced work in history. For the year 1915–16, permission is given only to those who have taken or are taking Course V., and who are able to read French or some other modern language.

VII. UNITED STATES HISTORY, 1750–1829. First semester: the French and Indian war, the English colonial system and the struggle precipitated by the attempts of George III. and his ministers to remodel it, the war for independence, the confederation, the framing and ratification of the state and federal constitutions. Second semester: the first six presidents, their personalities, problems, and policies, the problem of relations with Europe, the war of 1812, the Monroe doctrine, national expansion, growth of democracy. The important constitutional, political, economic, and social developments are emphasized. Becker's Beginnings of the American people, Channing's History of the United States, Vol. III., Johnson's Union and Democracy, and other works. Lectures, recitations, and essays. *Tu., Th., Sat., at 10.* 15 F. H. MR. WRISTON. (IX.)

Course VII. is elective for those who have taken any course in history or economics. It will probably be omitted in 1916–17.

VIII. UNITED STATES HISTORY, 1829–1913. First semester: the personalities, policies, and achievements of the more important presidents and political leaders, and the important constitutional, political, economic, and social developments to the outbreak of the civil war. Second semester: the civil war, reconstruction, the new economic and social problems, the United States as a colonial and world power. Bassett's Short History of the United States, Stanwood's History of the Presidency, and Dewey's Financial History of the United States. Lectures, recitations, and essays. *Tu., Th., Sat., at 8.* 15 F. H. MR. WRISTON. (VII.)

Course VIII. is elective for those who have taken any course in history or economics.

[IX. AMERICAN GOVERNMENT. First semester: a survey of the development of constitutional government in America, followed by a study of the origin, development, present condition, and methods of operation of the several organs of the federal government; the rise, organization, and methods of political parties. Second semester: the growth of the state constitutions, and the organization and operation of the state governments; local government and municipal administration; and the rights and obligations of citizens. In the treatment of the various topics, the significance of the historical development is constantly emphasized, comparisons with other countries are made, and discussion is turned from time to time to the fundamental problems of systematic political theory. Beard's American Government and Politics, Munro's Government of American Cities, and collateral readings. Discussions and reports. *Three times a week.* MR. WRISTON.]

Course IX. is elective for Sophomores who have taken Course I., and for Juniors and Seniors. It is intended primarily for those who plan to take only a single course, other than Course I., in the department. Only one hour credit will be given for this course, if taken in addition to Course VII. or Course VIII. This course alternates with Course X.

X. COMPARATIVE GOVERNMENT. First semester: a systematic study of the constitutions, of the national, local, and municipal systems of administration, of political parties, and of

the functions of government in Great Britain, France, and Germany. Second semester: a survey of the other European countries, of the Latin-American countries, of self-governing dependencies, of India, China, and Japan, with some consideration of colonial administration. The aim of the course is to present the development of constitutional government outside of the United States, and to study the internal problems of the more important countries, with constant attention to American parallels and to the problems of systematic political theory. The course is intended to give a clearer knowledge of the contemporary conditions of other countries, and to develop broader political views. Ogg's Governments of Europe, Munro's Government of European Cities, and collateral readings. Discussions and reports. *Mon., Wed., Fri., at 8.* 12 F. H. MR. WRISTON. (I.)

Course X. is elective for Sophomores who have attained a grade of three in Course I., and for Juniors and Seniors who have taken any course in history. Courses IX. and X. are given in alternate years, Course IX. being omitted in 1915–16. Courses IX. and X. are not open to those who took Course IX. in 1912–13 or 1913–14.

ECONOMICS AND SOCIAL SCIENCE.

PROFESSOR TUTTLE; MR. RICH.

I. PRINCIPLES OF ECONOMICS. This course gives the student a scientific analysis of modern industrial society, and acquaints him with the principles of political economy and correct methods of analysis. The aim is to give, first, discipline in habits of scientific thinking in regard to all social phenomena, and, second, perspective and a basis of sound knowledge for further and more intensive study in the general field of economics and social science, and for an intelligent exercise of the duties of citizenship. The means of instruction in this and in the other courses in economics are text-books, lectures, discussions, reports, collateral reading, and frequent written tests. *Tu., Th., Sat., at 9.* 15 F. H. PROFESSOR TUTTLE. (VIII.)

Course I. is elective for Sophomores.

*II. ADVANCED ECONOMICS. Critical studies in modern economic theory, with selected readings from the works of leading economists. Particular attention is given to theories of value and distribution. Earlier theories of distribution are examined in the light of contemporary economic conditions. Socialism and Henry George's Progress and Poverty are studied in relation to earlier and current theories of value and distribution. The conditions of economic progress in the light of economic analysis also receive attention. *Tu., Th., Sat., at 8.* 12 F. H. PROFESSOR TUTTLE. (VII.)

Course II. is elective, with the permission of the instructor, for those who have taken Course I.

[III. CORPORATIONS, TRUSTS, AND MONOPOLIES. The historical development and analysis of the different forms of industrial organization, including the single proprietorship, partnership, joint-stock company, and corporation, and the later developments, such as the pool, trust, holding company, consolidated corporation, and "community of interest." Critical study of the economic and social effects of great combinations, illustrated by documents. The elements of corporation finance, with especial reference to organization and management. The evils of corporate organization, such as fraudulent promotion, over-capitalization, and manipulation. Public policy toward corporations. Conditions insuring progress in method and organization. The evil effects of monopoly, and the problems of control. Legislation in the United States and other countries, and important legal decisions. Public-service corporations; public utilities commissions. The principles of transportation and railroad problems, economic, social and legal; the Interstate Commerce Commission. *Three times a week.* PROFESSOR TUTTLE.]

Course III. is elective for those who have taken Course I. It is given in alternate years with Course IV., and is omitted in 1915–16.

IV. MONEY AND BANKING. The theory of money, and the principles of monetary circulation. The origin and development of money; coinage; monometallism and bimetallism. The monetary history of the United States, England, France, and

Germany. The production of the precious metals, and its relation to monetary policy. International bimetallism. The evolution of the gold standard. The principles of credit and the nature and monetary functions of credit instruments. The theory and history of government issues of paper currency, and especially the "greenback" experiment in the United States. The theory and history of banking, and the evolution of bank-note currency and deposit currency. The development of the banking systems of France, England, Germany, and the United States. Monetary and banking problems of the United States. Particular attention is given to the study of the Federal Reserve System. *Tu., Th., Sat., at 11.* 15 F. H. PROFESSOR TUTTLE. (X.)

Course IV. is elective for those who have taken Course I. It is given in alternate years with Course III., and will be omitted in 1916–17.

[V. PUBLIC FINANCE. This course covers, in a general manner, the entire field of public finance, but pays special attention to taxation. Public expenditures, revenues from various sources, public debts, and budgets will be studied with reference both to theory and to the practice of various nations. *Three times a week.* MR. RICH.]

Course V. is elective for those who have taken Course I. It is given in alternate years with Course VI., and is omitted in 1915–16.

*VI. INTERNATIONAL TRADE AND TARIFF HISTORY. After a consideration of the theory of international trade, the tariff policy of various European nations and of the United States is studied. *Tu., Th., Sat., at 9.* 12 F. H. MR. RICH. (VIII.)

Course VI. is elective, with the permission of the instructor, for those who have taken Course I. It is given in alternate years with Course V., and will be omitted in 1916–17.

VII. LABOR PROBLEMS. The course begins with a brief survey of the Industrial Revolution and the rise of the factory system. The trade union movement is then studied, and various present-day problems considered in their relation to unionism. The work is carried on by means of lectures, discussions in class room, and frequent written tests on assigned

reading. At least one thesis is required. *Mon., Wed., Fri., at 12.* Room B, F. H. MR. RICH. (V.)

Course VII. is elective for those who have taken Course I.

VIII. SOCIOLOGY. An analytical study of the factors and forces of social life, followed by the study of selected problems. Lectures, discussions, and frequent written tests on assigned reading. *Mon., Wed., Fri., at 11.* 15 F. H. MR. RICH. (IV.)

Course VIII. is elective for those who have taken Course I.

*IX. ECONOMICS SEMINARY. Each member of the seminary is assigned a subject for investigation in the field of economics or social science. The work is done under the direction of the instructors. Each member is expected to report from week to week on the progress made and finally to prepare a thesis exhibiting the results of the year's research. For the year 1915–16 the topics for individual research relate to socialism. *Tu., 7–10 p. m., counting as three hours for the year.* 10 F. H. PROFESSOR TUTTLE and MR. RICH.

Course IX. is elective, with the permission of the instructors, for those Seniors who have shown, in earlier courses in the department, the ability to undertake individual research.

It will be noted that in each of the college classes certain courses cannot be taken at all except by such students as take Course I. in the Sophomore year. Hence a student in an odd-numbered class who wishes to take Course III. or Course V. must qualify himself to take it in his Junior year by taking Course I. in his Sophomore year; and similarly a student in an even-numbered class can take Course IV. or Course VI. only by taking Course I. in his Sophomore year.

PHILOSOPHY.

PROFESSOR ARMSTRONG.

I. LOGIC. Jevons-Hill's Elements of Logic; lectures, and recitations, illustrated by numerous examples in logical praxis. An elementary course in the forms of reasoned thinking, both

deductive and inductive. SECTION 1, *Mon., Wed., Fri., at 11 (first half-year).* SECTION 2, *Mon., Wed., Fri., at 11 (second half-year)*, alternating with the sections in I. Psychology. 28 F. H. (IV.)

Course I. is elective for Sophomores.

II.[1] ANCIENT AND MEDIÆVAL PHILOSOPHY. Zeller's Outlines of Greek Philosophy, with references to other authorities. Falckenberg's History of Modern Philosophy. Lectures, recitations, and discussions on the historical development of philosophy to the beginning of modern times. *Mon., Wed., Fri., at 10 (first half-year).* 28 F. H. (III.)

Course II. is elective for those who have taken any one of the following courses: I. Philosophy, I. Psychology, I. Ethics. Juniors who elect it must have received grade three or over in one of these courses.

III.[2] MODERN PHILOSOPHY TO 1840. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other standard authorities. The progress of modern philosophy is traced to the opening of the present age. *Mon., Wed., Fri., at 10 (second half-year).* 28 F. H. (III.)

Course III. is elective, under ordinary circumstances, for those who have taken Course II.

III. A. READINGS IN PHILOSOPHY. Readings in the philosophical classics, ancient and modern, and in collateral authorities. Those who elect this course are required to present abstracts and theses based on the selections read.

Course III. A is supplementary to Courses II. and III., and elective only in connection with them. It counts as *one hour a week* for the year.

*IV. PHILOSOPHY OF THE NINETEENTH CENTURY. Lectures, readings, and discussions on philosophical thought since the disruption of the Hegelian school. In the second half of the year the work is conducted by the seminary method. Special attention is given to contemporary English and American philosophy, and to the most recent types of opinion,

as pragmatism and the systems of Eucken and Bergson. *Tu., 7:30–9 p. m., counting as two hours.* 24 F. H.

Course IV. is elective, with the permission of the instructor, for those who have taken Courses II. and III., or their equivalent.

PSYCHOLOGY.

PROFESSOR DODGE.

I. ELEMENTARY PSYCHOLOGY. Lectures and recitations based on Pillsbury's Essentials of Psychology, and references to other standard authorities. SECTION 1, *Mon., Wed., Fri., at 11 (first half-year).* SECTION 2, *Mon., Wed., Fri., at 11 (second half-year)*, alternating with the sections in I. Philosophy. 39 F. H. (IV.)

Course I. is elective for Sophomores. It may not be elected alone, but must be elected with I. Philosophy. It is preparatory to all later work in the department, and it should therefore be taken in Sophomore year by all students who plan to elect their major studies in psychology.

II. PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY. Lectures and class demonstrations, with collateral reading. Ladd-Woodworth's Elements of Physiological Psychology is used as a text-book. The course aims at a dynamic psychology. It deals with the nervous conditions of consciousness with special reference to mental work, fatigue, and efficiency, the origin and integration of knowledge and conduct. Experimental methods of investigation are discussed and illustrated by class demonstrations. *Mon., Wed., Fri., at 8.* 22 F. H. (I.)

Course II. is elective for those who have taken Course I., or for those who are taking it in their Junior or Senior year.

[III. NORMAL AND ABNORMAL EMOTIONS AND WILL. Lectures and reports. A systematic general account of the emotions, the will, and human personality. A more detailed account of special phenomena, including anger, fear, the tender emotions, sympathy, the aesthetic emotions, the religious emotions, emotional prejudice, the motor value of

ideas, suggestion and hypnotism, compulsive ideas, etc. *Twice a week.*]

Course III. is elective for those who have taken Course I. It is omitted in 1915–16.

IV. EDUCATIONAL PSYCHOLOGY. Lectures, reports, and required readings, constituting a systematic discussion of the laws of mental development and the psychological basis of educational theory and practice. In conjunction with Course I., this course is planned to meet the requirements in educational psychology of those states and cities which demand the professional training of teachers, but it is also intended to serve the needs of those whose interest in the psychological problems of education is non-professional. *Tu., Th., at 10.* 11 F. H. (IX.)

Course IV. is elective for those who have taken Course I.

*V. LABORATORY COURSE IN PSYCHOLOGY. Experimental study of special problems. *Th., 2–4.* 22 F. H.

Course V. is elective, with the permission of the instructor, for those who have taken Course II.

ETHICS AND RELIGION.

PROFESSOR RICE; ASSOCIATE PROFESSOR BRIGHTMAN.

I[1]. INTRODUCTION TO ETHICS. Lectures on the origin and evolution of morality and on the history of ethics are followed by a discussion of the fundamental problems of the theory of morality, and of concrete moral problems, personal and social. Readings in the best modern authors. This course aims, first, to furnish a sound scholarly basis for moral judgments, and then to interest the student in the great moral problems and movements of the day. *Tu., Th., Sat., at 8 (first half-year).* 28 F. H. ASSOCIATE PROFESSOR BRIGHTMAN. (VII.)

Course I. is elective for Juniors.

II.[2] INTRODUCTION TO THE STUDY OF RELIGION. A few lectures on the origin of religion and the great historic religions are followed by a discussion of the debated problems of religion

and a constructive presentation of the truths of Christianity. Readings in the best modern authors. This course aims, first, to quicken the student's interest in religion, and then to aid him to face fearlessly the questionings of modern times from the point of view of sound scholarship. *Tu., Th., Sat., at 8 (second half-year).* 28 F. H. ASSOCIATE PROFESSOR BRIGHTMAN. (VII.)

Course II. is elective for those who have taken Course I., and occasionally for others by permission of the instructor.

III.[1] THE ENGLISH BIBLE. A study, historical and interpretative, of the Old Testament, with special emphasis upon the development of religious conceptions. An introduction to the methods of scientific investigation of Biblical material. Written reports on readings. *Tu., Th., Sat., at 10 (first half-year).* 24 F. H. ASSOCIATE PROFESSOR BRIGHTMAN. (IX.)

Course III. is elective for Juniors.

IV.[2] THE ENGLISH BIBLE. A study, historical and interpretative, of the New Testament, with special emphasis upon the life and teachings of Christ and of Paul. The main critical problems are discussed. *Tu., Th., Sat., at 10 (second half-year).* 24 F. H. ASSOCIATE PROFESSOR BRIGHTMAN. (IX.)

Course IV. is elective for those who have taken Course III.

V.[3] RELATIONS OF SCIENCE AND RELIGION. Lectures and recitations on the history of important advances in scientific thought and their bearing upon theistic and Christian belief. The heliocentric astronomy, the antiquity of the earth and of man, the correlation of physical and vital forces, and the theory of evolution are among the topics discussed. Rice's Christian Faith in an Age of Science is used as a text-book. *Tu., Th., at 12 (second half-year).* 8 J. H. PROFESSOR RICE. (XI.)

Course V. is elective for Juniors.

VI. SEMINARY IN PHILOSOPHY OF RELIGION.—The subject for 1915–16 is: Personality, human and divine. An attempt is made to define and evaluate the human self, soul or personality; and to examine the application of the category of personality

to the Divine Being. The utterances of great religious leaders and philosophers of religion are studied with these problems in mind. *Tu., 2 to 3:45 p. m. (counting as two hours for the year).* 24 F. H. ASSOCIATE PROFESSOR BRIGHTMAN. (XII.)

Course VI. is elective for those who have taken Courses I. and II., for Seniors who are taking them, and occasionally, by special permission, for others.

MATHEMATICS.

PROFESSORS HOWLAND AND CAMP; ASSOCIATE PROFESSOR LAMOND.

I.[1] TRIGONOMETRY. SECTION 1, *Mon., Wed., Fri., at 8;* SECTION 2, *Tu., Th., Sat., at 8;* SECTION 3, *Mon., Wed., Fri., at 9;* SECTION 4, *Tu., Th., Sat., at 9 (first half-year).* 25 and 26 O. H. PROFESSORS HOWLAND and CAMP, and ASSOCIATE PROFESSOR LAMOND. (I.)

Course I. is elective for Freshmen.

II.[1] COLLEGE ALGEBRA. Permutations and combinations, limited to simple cases. Complex numbers, with graphical representation of sums and differences. Determinants, chiefly of the second, third, and fourth orders, including the use of minors and the solution of linear equations. Numerical equations of higher degree, and so much of the theory of equations, with graphical methods, as is necessary for their treatment, including Descartes' rule of signs and Horner's method. *Mon., Wed., Fri., at 9 (first half-year).* 25 O. H. PROFESSOR CAMP. (II.)

Course II. is elective for Freshmen.

III.[2] ANALYTIC GEOMETRY. SECTION 1, *Tu., Th., Sat., at 8;* SECTION 2, *Mon., Wed., Fri., at 9;* SECTION 3, *Tu., Th., Sat., at 9 (second half-year).* 25 and 26 O. H. PROFESSORS HOWLAND and CAMP, and ASSOCIATE PROFESSOR LAMOND. (II.)

Course III. is elective for those who have taken Course I.

IV.[2] SOLID GEOMETRY. SECTION 1, *Mon., Wed., Fri., at 8;* SECTION 2, *Mon., Wed., Fri., at 9;* SECTION 3, *Tu., Th., Sat.,*

at 9 (second half-year). 25 and 26 O. H. PROFESSORS HOWLAND and CAMP, and ASSOCIATE PROFESSOR LAMOND. (I.)

Course IV. is elective for Freshmen.

In fulfilment of the requirements for the degree of B. S., a candidate must present on admission, or take in his Freshman year, trigonometry, and one of the following subjects: college algebra, analytic geometry, solid geometry.

Students who intend to do further work in the department are advised to take Courses I. and III. in their Freshman year, and Course VII. in their Sophomore year.

V. SURVEYING. The theory and use of chain, tape, compass, level, transit, and sextant; surveying methods, problems, and computations, together with practical field and office work; spherical trigonometry. *Tu., Th., at 8, and two hours of field-work, four hours counting as three.* 26 O. H. ASSOCIATE PROFESSOR LAMOND. (VII.)

Course V. is elective for those who have taken Course I.

VI. DESCRIPTIVE GEOMETRY AND MECHANICAL DRAWING. Lectures and recitations, based on text-books, together with practice in the draughting room. Problems in descriptive geometry are taken up relating to points, lines, planes, and surfaces, their intersections and developments, etc. The course includes also the care and use of drawing instruments, mechanical drawing from objects, sketching, lettering, dimensioning, etc. *Mon., Wed., Fri., 10–12, counting as three hours for the year.* 40 S. L. ASSOCIATE PROFESSOR LAMOND. (III.)

Course VI. is elective for those who have taken Course IV.

VII. DIFFERENTIAL AND INTEGRAL CALCULUS. Elementary course. *Mon., Wed., Fri., at 8.* 25 O. H. PROFESSOR HOWLAND. (I.)

Course VII. is elective for those who have taken Course III.

VIII.[2] ANALYTIC GEOMETRY. Advanced course, beginning with a review of Course III., and extending into the subject of solid analytic geometry. *Mon., Wed., Fri., at 11 (second half-year).* 26 O. H. PROFESSOR CAMP. (IV.)

Course VIII. is elective for those who have taken Course III.

IX.[1] THEORY OF ALGEBRAIC PLANE CURVES. An introductory course, including trilinear coördinates, polars, singular points, Plücher's equations, asymptotes, approximation curves, and linear branches. *Tu., Th., Sat., at 10 (first half-year).* 25 O. H. PROFESSOR HOWLAND. (IX.)

Course IX. is elective for those who have taken Courses VII. and VIII.

[X.[1] HIGHER ALGEBRA. An introduction to some of the important branches of higher algebra: properties of polynomials, systems of linear equations, linear transformations, invariants, quadratic forms, etc. *Three times a week (first half-year).* PROFESSOR HOWLAND.]

Course X. is elective for those who have taken Courses II., VII., and VIII. It is omitted in 1915–16.

XI.[2] INFINITE SERIES. Convergence, uniform convergence, differentiation and integration of series of functions of one variable; the use of series in computing; an introduction to the subject of Fourier's series, with applications to simple problems in the flow of heat and electricity. *Mon., Wed., Fri., at 10 (second half-year).* 26 O. H. PROFESSOR CAMP. (III.)

Course XI. is elective for those who have taken Course VII.

XII.[1] REDUCTION OF OBSERVATIONS. Methods of obtaining from a set of observations the best possible results, and measures of their reliability. The mathematical treatment of statistics. Topics in the calculus of finite differences, and in the theory of probability; least squares, and the method of moments. *Mon., Wed., Fri., at 10 (first half-year).* 26 O. H. PROFESSOR CAMP. (III.)

Course XII. is elective for those who have taken, or who are taking, Course VII.

[XIII. MECHANICS. Statics of rigid bodies and of other systems of particles, including as much of the theory of strings as is necessary to the study of cables hanging freely or supporting a bridge. The motion of particles under constant and under variable forces, including the study of impulsive forces, and of elasticity, and the usual introduction to celestial

mechanics. An elementary treatment of the motion of a rigid body. *Three times a week.* PROFESSOR CAMP.]

Course XIII. is elective for those who have taken Course VII. It is omitted in 1915–16.

XIV. CALCULUS. Second course, including, in the first half-year, a more extended discussion of some of the subjects introduced in Course VII., and in the second half-year an introduction to the theory of differential equations, with applications to geometry, mechanics, and physics. *Tu., Th., Sat., at 9.* 25 O. H. PROFESSOR HOWLAND. (VIII.)

Course XIV. is elective for those who have taken Course VII.

ASTRONOMY.

PROFESSOR SLOCUM.

I. DESCRIPTIVE ASTRONOMY. A general introduction to the subject, dealing with the fundamental conceptions of the celestial sphere, astronomical instruments, the earth, moon, sun, planets, and their satellites, comets, meteors, stars, nebulae, and a brief outline of modern cosmogonies. Recitations, lectures, constellation study, and frequent use of the telescope. *Tu., Th., Sat., at 11.* VAN VLECK OBSERVATORY. (X.)

Course I. is elective for those who have taken Course I. in mathematics.

II. PRACTICAL ASTRONOMY. Use of sextant, transit, zenith telescope, chronometer and chronograph for solving such problems as time, latitude, longitude, and azimuth as used in astronomy, geodesy, and navigation. Use of equatorial telescope for simple observations. Methods of computation. *Tu., Th., at 12, and two hours of observations, four hours counting as three.* VAN VLECK OBSERVATORY. (XI.)

Course II. is elective for those who have taken Course I. in mathematics.

III.[2] HISTORY OF ASTRONOMY. A rapid survey of the development of the science from its origin down to the present

time. Lectures, collateral reading, reports. *Mon., Wed., Fri., at 12 (second half-year).* VAN VLECK OBSERVATORY. (V.)

Course III. is elective for Freshmen. It may not be elected by those who have taken, or who are taking, Course I.

[IV. SPHERICAL ASTRONOMY AND OBSERVATORY PRACTICE. Spherical coördinates. Aberration, precession, and nutation. Reduction and determination of positions of fixed stars. Proper motion and parallax. Star catalogues. Theory and adjustment of the equatorial. Use of the micrometer for measuring double stars, positions of planetoids, comets, etc. *Three times a week.*]

Course IV. is elective for those who have taken Course II. in astronomy and Course VII. in mathematics. It is omitted in 1915–16.

V. ASTROPHYSICS. Theory and use of the spectroscope, photometer, and astronomical camera. Spectroscopic study of the sun and stars. Binary systems. Variable stars. Measurement of spectra and direct photographs. *Mon., Wed., Fri., at 10.* VAN VLECK OBSERVATORY. (III.)

Course V. is elective for those who have taken Courses I. and II. Courses IV. and V. are given in alternate years.

*VI. INTRODUCTION TO CELESTIAL MECHANICS. Laws of motion. Study of parabolic and elliptic orbits. *Three times a week, the hours to be determined hereafter.* VAN VLECK OBSERVATORY.

Course VI. is elective, with the permission of the instructor, for those who have taken Course IV.

PHYSICS.

PROFESSORS CRAWFORD AND CADY.

I. ELEMENTARY PHYSICS. A general course, conducted by lectures, with experimental illustrations, following a standard text-book. A two-hour laboratory period is substituted for the regular lecture about once a fortnight, the class being divided into sections for this purpose. *Mon., Wed., Fri., at 10.* 34 S. L. PROFESSORS CRAWFORD and CADY. (III.)

Course I. is elective for those who have taken Course I. in mathematics or are taking it in the first half-year. Those who elect Course I. may also advantageously elect Course I.A. Students who have received credit in physics on admission to college, but who elect to take Course I. in class, in order to be allowed to pursue the more advanced courses in the department, will receive credit for *two* hours on their quota toward graduation.

I.A. PROBLEMS IN PHYSICS. The course is supplementary to Course I., and is devoted chiefly to the solution of problems which illustrate the principles involved in that course. *Th., at 8.* 40 S. L. PROFESSORS CRAWFORD and CADY. (VII.)

Course I.A is elective for those who have taken, or are taking, Course I., and who have taken Course I. in mathematics.

II. ELEMENTARY PRACTICAL PHYSICS. The course is parallel with Course I., and may advantageously be taken with it. It is also required as an introduction to further laboratory work. *Tu., Wed., Th. afternoons; five, or seven and one-half, hours a week, counting as two or three hours respectively.* S. L. PROFESSORS CRAWFORD and CADY.

Course II. is elective for those who have taken, or are taking, Course I., or who have received credit in physics on admission; but, except by special permission of the instructors, only those who have completed Course I. are permitted to take seven and a half hours per week.

N. B. Students who receive credit in physics on admission, but who do not take Course I., must give evidence by examination or otherwise of the requisite proficiency before being admitted to any of the following courses:—

III.[1] SOUND; GEOMETRICAL OPTICS. A general treatment of the phenomena of sound, followed by a brief introduction to geometrical optics. Based largely on text-books, with demonstrations and occasional laboratory practice. *Mon., Wed., Fri., at 12.* 34 S. L. PROFESSOR CRAWFORD. (V.)

Course III. is elective for those who have taken Course I.

IV. PHYSICAL OPTICS. An elementary treatment of the wave-theory of light,— interference, diffraction, spectrum

analysis, double refraction, polarization, etc. Based largely on text-books, with demonstrations and occasional laboratory practice. *Mon., Wed., Fri., at 12.* 34 S. L. PROFESSOR CRAWFORD. (V.)

Course IV. is elective for those who have taken Courses I. and III., and who have taken, or are taking, Course VII. in mathematics.

[V.[1] HEAT. A general course in the subject (omitting thermo-dynamics) following Poynting and Thomson's Heat, and including some laboratory practice. *Three times a week (first half-year).* PROFESSOR CRAWFORD.]

Course V. is elective for those who have taken Course I. It is omitted in 1915–16.

[VI.[2] THERMO-DYNAMICS. Text-book and lectures on the elements of thermo-dynamics, with special application to the steam engine, and involving a few elementary exercises in engine testing. *Three times a week (second half-year).* PROFESSOR CRAWFORD.]

Course VI. is elective for those who have taken Course V., and who have taken, or are taking, Course VII. in mathematics. It is omitted in 1915–16.

VII. APPLICATIONS OF ELECTRICITY AND MAGNETISM. Lectures, laboratory work, and demonstrations, based largely upon a text-book. The course is an elementary treatment of the electric and magnetic phenomena in nature; magnetic properties of iron; electrolysis and storage batteries; electric heat, light, and power; telegraphy and telephony; electric waves, Röntgen rays, and radio-activity. *Tu., Th., Sat., at 10.* 34 S. L. PROFESSOR CADY. (IX.)

Course VII. is elective for those who have taken Course I.

VIII. EXPERIMENTAL ELECTRICITY. Laboratory practice in electricity and magnetism, with occasional lectures. Opportunity is afforded for some shop-work. *Tu., Wed., Th. afternoons; five, or seven and one-half, hours a week, counting as two or three hours respectively.* S. L. PROFESSOR CADY.

Course VIII. is elective for those who have taken Courses I. and II., and who have taken, or are taking, Course VII.

[IX. DYNAMOS, MOTORS, AND TRANSFORMERS. Text-book and lectures on the elements of direct and alternating current machinery, with laboratory tests by the class. Use is made of the steam engine and generator at the boiler house. *Three times a week.* PROFESSOR CADY.]

Course IX. is elective for those who have taken Courses II. and VII. It is advisable, though not necessary, to take Course VII. in mathematics before electing this course. It is omitted in 1915–16.

X. ADVANCED ELECTRICITY. Text-book and lectures on the elementary mathematical theory of electricity and magnetism. In the second half-year the subject of radiotelegraphy is especially considered, and the work is in part experimental. *Mon., Wed., Fri., at 2.* 40 S. L. PROFESSOR CADY.

Course X. is elective for those who have taken Course VII. in physics and Course VII. in mathematics.

XI. PRACTICAL PHYSICS. Careful measurements in mechanics, heat, sound, and light. *Tu., Wed., Th. afternoons; five, or seven and one-half, hours a week, counting as two or three hours respectively.* S. L. PROFESSOR CRAWFORD.

Course XI. is elective for those who have taken Course II. Those electing it will be expected to take or to have taken also one or more of Courses III.–VII.

XII. ADVANCED EXPERIMENTAL ELECTRICITY. Selected problems in electricity and magnetism, particularly in alternating currents, electric oscillations, and discharge through gases. The course includes reading and lectures as well as experimental work. *Tu., Wed., Th. afternoons; five, or seven and one-half, hours a week, counting as two or three hours respectively.* S. L. PROFESSOR CADY.

Course XII. is elective for those who have taken Course VIII. in physics and Course VII. in mathematics, and who have taken, or are taking, either Course IX. or Course X. in physics.

CHEMISTRY.

ASSOCIATE PROFESSORS CROSSLEY AND HOOVER.

I. ELEMENTARY CHEMISTRY. A. LECTURES. The first half-year is devoted to the non-metallic elements; the second half-year, chiefly to the more common metals. *Tu., Th., Sat., at 10.* 3 J. H.

B. LABORATORY PRACTICE. SECTION 1, *Th., 2–4;* SECTION 2, *Th., 4–6.* CHEM. LAB. ASSOCIATE PROFESSOR CROSSLEY. (IX.)

Course I. is elective for Freshmen. Students who have received credit in chemistry on admission to college, but who elect to take over the course, will receive credit for *two and one-half* instead of three hours.

II.[1] QUALITATIVE ANALYSIS. A. Lectures and recitations on the application of the principles of theoretical chemistry to quantitative analysis. *Sat., at 11 (first half-year).* 3 J. H. (X.)

B. Laboratory practice in basic and acid analysis. Each exercise occupies 2½ hours. *Mon., Tu., Fri., at 2 (first half-year).* CHEM. LAB. ASSOCIATE PROFESSOR HOOVER.

Course II. is elective for those who have taken Course I.

III.[2] ELEMENTARY QUANTITATIVE ANALYSIS. A laboratory course in fundamental gravimetric and volumetric methods, with lectures and class discussions. Each exercise occupies 2½ hours. *Mon., Tu., Fri., at 2 (second half-year).* CHEM. LAB. ASSOCIATE PROFESSOR HOOVER.

Course III. is elective for those who have taken Course II.

*IV. ADVANCED QUANTITATIVE ANALYSIS. A continuation of Course III. during the first half-year. Selected volumetric and gasometric methods arranged to suit the needs of the individual student during the second half-year. Each exercise occupies 2½ hours. The Monday exercise is required. *Mon., at 2, and two, or three, other assigned periods.* CHEM. LAB. ASSOCIATE PROFESSOR HOOVER.

Course IV. is elective for three periods, with the permission of the instructor, for those who have taken Course III. It is elective for four periods for those who have taken Courses III. and VI., or who are taking Course VI. and have taken Course III.

V. ORGANIC CHEMISTRY. Lectures and recitations upon the principles of organic chemistry. *Mon., Wed., Fri., at 11.* 3 J. H. ASSOCIATE PROFESSOR CROSSLEY. (IV.)

Course V. is elective for those who have taken Course I. Course II. should be elected, if possible, in the same year with Course V.

VI. ORGANIC CHEMISTRY. A laboratory course devoted to the study of typical reactions of organic chemistry, and to the preparation of carbon compounds. Each exercise is required, and occupies 2½ hours. Occasional lectures are given on Mondays at 2. *Mon., at 2, and two other assigned periods.* CHEM. LAB. ASSOCIATE PROFESSOR CROSSLEY.

Course VI. is elective for those who have taken Course V. With the permission of the instructor, it may be elected for two periods a week.

VII. ADVANCED ORGANIC CHEMISTRY. Lectures and laboratory. Each laboratory exercise occupies 2½ hours. Lectures on Mondays at 3. *Mon., at 3, and two, or three, other assigned periods.* CHEM. LAB. ASSOCIATE PROFESSOR CROSSLEY.

Course VII. is elective for those who have taken Course VI. It may be elected for three or four periods a week.

VIII. PHYSICAL CHEMISTRY. A course devoted to the systematic treatment of modern chemical theory, and the application of this theory to some of the more important chemical problems. The effect of the variables, heat, light, pressure, and electricity, is studied in detail. Special attention is given to the mass law and the phase rule. The third assigned period at times consists of a laboratory exercise in physico-chemical measurements, such as molecular weight determinations, heat of solution, conductivity of electrolytes,

electro-motive force, etc. *Tu., Th., at 12; Sat., at 10.* 3 J. H. ASSOCIATE PROFESSOR HOOVER. (XI.)

Course VIII. is elective for those who have taken, or are taking, Course V.

[IX.[1] INDUSTRIAL CHEMISTRY. Lectures and collateral reading. The purpose of the course is to give a broad, cultural idea of the chemical processes involved in the manufacture of products of value in modern every-day life. *Three times a week (first half-year).* ASSOCIATE PROFESSOR HOOVER.]

Course IX. is elective for those who have taken, or are taking, Course V. It is omitted in 1915–16.

*X.[2] ELECTRO-CHEMISTRY. Lectures. Theories of the conduction of the electric current by solutions, of electrolysis, and of the source of electricity in a galvanic cell. The application of these theories to processes for the preparation of compounds, to the electrothermal and electrolytic extraction and refining of metals, to electro-plating, etc. *Mon., Wed., Fri., at 12 (second half-year).* 3 J. H. ASSOCIATE PROFESSOR HOOVER. (V.)

Course X. is elective, with the permission of the instructor, for those who have taken Course II.

[*XI.[2] APPLIED ELECTRO-CHEMISTRY. A laboratory course devoted to the study of the phenomena of electrolysis; measurement of electrical constants; determination of current and energy efficiencies in electrolytic work; study of commercial methods of electrolytic plating and refining of metals, and the electro-chemical preparation of pigments and of organic and inorganic compounds in general. Each exercise occupies 2½ hours. *Two exercises a week, the hours to be determined (second half-year).* ASSOCIATE PROFESSOR HOOVER.]

Course XI. is elective, with the permission of the instructor, for those who have taken, or are taking, Courses IV. and X. in chemistry, and Course VII. in physics. It is omitted in 1915–16.

[*XII.[2] PHYSIOLOGICAL CHEMISTRY. A lecture course devoted to the study of the chemistry of foods, digestion,

assimilation, metabolism, respiration, secretions, and the excretions. *Three times a week (second half-year).* ASSOCIATE PROFESSOR CROSSLEY.]

Course XII. is elective, with the permission of the instructor, for those who have taken, or are taking, Course V. in chemistry, and Course IV. in biology. It is omitted in 1915–16.

[*XIII.[2] PHYSIOLOGICAL CHEMISTRY. A laboratory course, devoted to the experimental study of the chemistry of animal tissues and organs, of foods and digestion, and of milk, urine, blood, etc. Each exercise occupies 2½ hours. *Three times a week (second half-year).* ASSOCIATE PROFESSOR CROSSLEY.]

Course XIII. is elective, with the permission of the instructor, for those who have taken Courses III. and V., and who have taken, or are taking, Course XII. It is omitted in 1915–16.

XIV. THEORETICAL CHEMISTRY. Lectures, assigned reading, and discussions upon the theories of atomic and molecular structure, valence, solution, dissociation, substitution, oxidation, reduction, condensation, isomerism, osmosis, colloidal condition, thermo- and photo-chemistry, and the relation of physical properties to molecular structure. *Tu., Th., Sat., at 11.* 1 J. H. ASSOCIATE PROFESSOR CROSSLEY. (X.)

Course XIV. is elective for those who have taken Courses III., V., and VIII.

*XV. ORGANIC RESEARCH. Investigation of special problems in theoretical and applied organic chemistry. ASSOCIATE PROFESSOR CROSSLEY.

Course XV. is elective, with the permission of the instructor, for graduate students.

GEOLOGY.

PROFESSOR RICE; MR. BARROWS.

I.[2] PHYSICAL GEOGRAPHY. Recitations and lectures, with Salisbury's Physiography, Briefer Course, as a text-book. SECTION 1, *Tu., Th., at 2;* SECTION 2, *Tu., at 3, Th., at 2 (second half-year).* 34 S. L. MR. BARROWS. (XII.)

Course I. is elective for Freshmen.

II. GEOLOGY. Elementary course. A course of lectures, chiefly on dynamical and structural geology. Pirsson and Schuchert's Text-book of Geology, Part I., is recommended for reference. *Mon., Wed., Fri., at 10.* 8 J. H. PROFESSOR RICE. (III.)

Course II. is elective for Sophomores who have taken, or are taking, I. Chemistry, and for others with permission of the instructor. It is desirable that those who take this course should also have taken courses in physics and physical geography either in college or in the preparatory school.

III.[1] GEOLOGY. Advanced course in structural and dynamical geology. Recitations and lectures, with Pirsson and Schuchert's Text-book of Geology, Part I., as the text-book. Special topics with references are assigned to members of the class, on which they are to give lectures. Excursions on Saturdays during the fall. The phenomena observed in an excursion are discussed at the next meeting of the class, one of the members of the class often giving a report thereon. *Mon., Wed., Fri., at 12 (first half-year), counting as four hours a week.* 8 J. H. PROFESSOR RICE. (V.)

Course III. is elective for those who have taken Course II.

IV.[2] GEOLOGY. Historical geology and paleontology. Recitations and lectures, with Pirsson and Schucherts' Text-book of Geology, Part II., as the text-book. Excursions on Saturdays during the spring term (required only of those who take also Course III.). *Mon., Wed., Fri., at 12 (second half-year), counting as four hours a week for those who take also Course III.* 8 J. H. PROFESSOR RICE. (V.)

Course IV. is elective for those who have taken Course II., and who have taken, or are taking, the courses in zoölogy and botany.

[V.[1] MINERALOGY. Crystallography and optical mineralogy. Lectures and practical exercises. Dana's Text-book of Mineralogy is used for reference. *Three times a week (first half-year).* PROFESSOR RICE.]

Course V. is elective for those who have taken I., III., and IV. Mathematics, I. Physics, and I. Chemistry.

[VI.[2] MINERALOGY. Determinative and descriptive mineralogy. Laboratory work in determinative mineralogy; lectures on descriptive mineralogy. Brush and Penfield's Manual of Determinative Mineralogy, and Dana's Text-book of Mineralogy, are used for reference. *Three times a week (second half-year).* PROFESSOR RICE.]

Course VI. is elective for those who have taken Course V. It is very desirable that those who take this course should take, or have taken, II. Chemistry. Courses V. and VI. are omitted in 1915–16.

BIOLOGY.

PROFESSOR CONN; ASSOCIATE PROFESSOR WHITNEY.

I.[1] GENERAL BIOLOGY. An introduction to the study of botany, zoölogy, and physiology. Lectures, recitations, and laboratory work. *Mon., Fri., 2–4 (with laboratory sections, Tu., 2–4, and Wed., 11–1) first half-year, counting as one hour for the year.* 8 J. H. PROFESSOR CONN and ASSOCIATE PROFESSOR WHITNEY. (VI.)

II.[2] BOTANY. Recitations, lectures, and laboratory work. *Mon., Fri., 2–4 (with a laboratory section, Wed., 11–1) second half-year, counting as one hour for the year.* 8 J. H. PROFESSOR CONN. (VI.)

Courses I. and II. are elective for Freshmen.

III. ZOÖLOGY. A study of the types of animals, including their embryology, certain phases of comparative anatomy, habits, distribution, and economic value. *Mon., Wed., Fri., at 9.* 8 J. H. PROFESSOR CONN and ASSOCIATE PROFESSOR WHITNEY. (II.)

Course III. is elective for Sophomores.

IV. PHYSIOLOGY. The instruction is given chiefly by lectures, with daily written recitations. *Tu., Th., at 11.* 8 J. H. PROFESSOR CONN. (X.)

Course IV. is elective for Sophomores.

[V. EVOLUTION. A study of evolution; lectures and recitations. The last half-year is devoted to the study of the evolution of man. *Twice a week.* PROFESSOR CONN.]

Course V. is elective for Juniors.

VI. BACTERIOLOGY. A study of the general subject, with special reference to sanitary problems. *Tu., Th., at 8.* 34 S. L. PROFESSOR CONN. (VII.)

Course VI. is elective for Juniors. Courses V. and VI. are given in alternate years, Course V. being omitted in 1915–16.

*VII. BIOLOGY SEMINARY. Readings and reports upon modern biological journals and literature. The work of the seminary is done wholly by the students; and involves the preparation of a thesis involving special study. *Mon., at 4.* 8 J. H. PROFESSOR CONN.

Course VII. is elective, with the permission of the instructor, for those taking Course XI.

LABORATORY COURSES IN BIOLOGY.

In the following courses two and one-half laboratory hours are required to count as one hour in quota. The laboratory is regularly open every morning and afternoon, but instruction is given only on Tuesday, Wednesday, and Thursday afternoons and Tuesday, Thursday, and Saturday mornings. Lectures, which all students are required to attend, accompany the laboratory work.

VIII. INTRODUCTORY PRACTICAL COURSE. The biology of animals and plants, including the study of cells and cell structure, and followed by the dissection of invertebrates. *Five laboratory hours for the year, or seven and one-half for the first two terms for those who take Course VIII. A.* PROFESSOR CONN and ASSOCIATE PROFESSOR WHITNEY.

Course VIII. is elective for Sophomores.

VIII. A. VERTEBRATE DISSECTION. *Seven and one-half laboratory hours (third term).* ASSOCIATE PROFESSOR WHITNEY.

Course VIII. A is elective for those who have finished Course VIII.

IX. HISTOLOGY AND MICROSCOPIC ANATOMY. *Five laboratory hours for the year, or seven and one-half for the first two terms for those who take Course IX. A.* ASSOCIATE PROFESSOR WHITNEY.

Course IX. is elective for those who have taken Course VIII.

IX. A. EMBRYOLOGY. Chiefly the study of the chick. *Seven and one-half laboratory hours (third term).* ASSOCIATE PROFESSOR WHITNEY.

Course IX. A is elective for those who have taken Course IX.

X. LABORATORY BOTANY. This is an alternative course to Course IX., for the second year in the biological laboratory. The course includes a study of the various groups of plants from bacteria to the flowering plants, and comprises structural, physiological, and histological botany. About one-third of the time is spent in field work, in which the student is required to identify trees, shrubs, and flowers, and to prepare an herbarium. *Seven and one-half laboratory hours for the year.* PROFESSOR CONN and ASSOCIATE PROFESSOR WHITNEY.

Course X. is elective for those who have taken Course VIII.

XI. PRACTICAL BACTERIOLOGY. The course is intended to give the student experience in bacteriological laboratory methods, and includes collateral readings on microbiology. *Five laboratory hours a week for the year.* PROFESSOR CONN.

Course XI. is elective for those who have taken Course IX. or Course X., and, with the permission of the instructor, for those who have taken Courses VIII. and VIII. A.

In individual cases, work of a special character may be assigned to students taking Course XI. in place of the regular course in bacteriology. This work may include some problem of research where the student is prepared for it.

PHYSICAL EDUCATION.

PROFESSORS CONN AND FAUVER.

I. PERSONAL AND SOCIAL HYGIENE. This course is designed to meet the growing demand that educated persons should have a practical knowledge of the laws of health. Under the head of personal hygiene, it covers such topics as food, exercise, the care of the skin, the heart, the respiratory organs, the mind, a discussion of the habits of study, of sex hygiene, etc. Under the head of social hygiene, it covers problems of contagious diseases, and general topics of sanitation which concern the individual's relations to the community. Lectures, with daily written recitations. *Wed., at 3.* 34 S. L. PROFESSOR CONN. (VI.)

Course I. is required of Freshmen, and elective for other students, but only in excess of the minimum quota.

II. PHYSICAL TRAINING—ELEMENTARY COURSE. During the first term, students are required to elect work in football, baseball, track, or tennis. In the second term, from Thanksgiving to Christmas, all are required to take systematic gymnastic work. After Christmas, all who have passed a satisfactory medical examination and certain physical efficiency tests may substitute basket-ball, track, boxing, swimming, etc., for the gymnastic work. During the third term students elect work out of doors as in the first term. SECTION 1, *Mon., Wed., Fri., at 12;* SECTION 2, *Tu., Th., Sat., at 12.* PROFESSOR FAUVER.

Course II. is required of Freshmen. It does not count in the quota for graduation.

III. PHYSICAL TRAINING—ADVANCED COURSE. The work consists of advanced gymnastics, basket-ball, handball, squash, swimming, and boxing. SECTION 1, *Mon., Wed., Fri., at 3;* SECTION 2, *Tu., Th., at 3; Fri., at 4.* PROFESSOR FAUVER.

Course III. is required of Sophomores from Thanksgiving to Easter. It does not count in the quota for graduation.

IV. ANATOMY AND KINESIOLOGY. First semester: a partial course in descriptive anatomy, including a study of bones,

[IX. DYNAMOS, MOTORS, AND TRANSFORMERS. Text-book and lectures on the elements of direct and alternating current machinery, with laboratory tests by the class. Use is made of the steam engine and generator at the boiler house. *Three times a week.* PROFESSOR CADY.]

Course IX. is elective for those who have taken Courses II. and VII. It is advisable, though not necessary, to take Course VII. in mathematics before electing this course. It is omitted in 1915–16.

X. ADVANCED ELECTRICITY. Text-book and lectures on the elementary mathematical theory of electricity and magnetism. In the second half-year the subject of radiotelegraphy is especially considered, and the work is in part experimental. *Mon., Wed., Fri., at 2.* 40 S. L. PROFESSOR CADY.

Course X. is elective for those who have taken Course VII. in physics and Course VII. in mathematics.

XI. PRACTICAL PHYSICS. Careful measurements in mechanics, heat, sound, and light. *Tu., Wed., Th. afternoons; five, or seven and one-half, hours a week, counting as two or three hours respectively.* S. L. PROFESSOR CRAWFORD.

Course XI. is elective for those who have taken Course II. Those electing it will be expected to take or to have taken also one or more of Courses III.–VII.

XII. ADVANCED EXPERIMENTAL ELECTRICITY. Selected problems in electricity and magnetism, particularly in alternating currents, electric oscillations, and discharge through gases. The course includes reading and lectures as well as experimental work. *Tu., Wed., Th. afternoons; five, or seven and one-half, hours a week, counting as two or three hours respectively.* S. L. PROFESSOR CADY.

Course XII. is elective for those who have taken Course VIII. in physics and Course VII. in mathematics, and who have taken, or are taking, either Course IX. or Course X. in physics.

CHEMISTRY.

ASSOCIATE PROFESSORS CROSSLEY AND HOOVER.

I. ELEMENTARY CHEMISTRY. A. LECTURES. The first half-year is devoted to the non-metallic elements; the second half-year, chiefly to the more common metals. *Tu., Th., Sat., at 10.* 3 J. H.

B. LABORATORY PRACTICE. SECTION 1, *Th., 2–4;* SECTION 2, *Th., 4–6.* CHEM. LAB. ASSOCIATE PROFESSOR CROSSLEY. (IX.)

Course I. is elective for Freshmen. Students who have received credit in chemistry on admission to college, but who elect to take over the course, will receive credit for *two and one-half* instead of three hours.

II.[1] QUALITATIVE ANALYSIS. A. Lectures and recitations on the application of the principles of theoretical chemistry to quantitative analysis. *Sat., at 11 (first half-year).* 3 J. H. (X.)

B. Laboratory practice in basic and acid analysis. Each exercise occupies 2½ hours. *Mon., Tu., Fri., at 2 (first half-year).* CHEM. LAB. ASSOCIATE PROFESSOR HOOVER.

Course II. is elective for those who have taken Course I.

III.[2] ELEMENTARY QUANTITATIVE ANALYSIS. A laboratory course in fundamental gravimetric and volumetric methods, with lectures and class discussions. Each exercise occupies 2½ hours. *Mon., Tu., Fri., at 2 (second half-year).* CHEM. LAB. ASSOCIATE PROFESSOR HOOVER.

Course III. is elective for those who have taken Course II.

*IV. ADVANCED QUANTITATIVE ANALYSIS. A continuation of Course III. during the first half-year. Selected volumetric and gasometric methods arranged to suit the needs of the individual student during the second half-year. Each exercise occupies 2½ hours. The Monday exercise is required. *Mon., at 2, and two, or three, other assigned periods.* CHEM. LAB. ASSOCIATE PROFESSOR HOOVER.

Course IV. is elective for three periods, with the permission of the instructor, for those who have taken Course III. It is elective for four periods for those who have taken Courses III. and VI., or who are taking Course VI. and have taken Course III.

V. ORGANIC CHEMISTRY. Lectures and recitations upon the principles of organic chemistry. *Mon., Wed., Fri., at 11.* 3 J. H. ASSOCIATE PROFESSOR CROSSLEY. (IV.)

Course V. is elective for those who have taken Course I. Course II. should be elected, if possible, in the same year with Course V.

VI. ORGANIC CHEMISTRY. A laboratory course devoted to the study of typical reactions of organic chemistry, and to the preparation of carbon compounds. Each exercise is required, and occupies 2½ hours. Occasional lectures are given on Mondays at 2. *Mon., at 2, and two other assigned periods.* CHEM. LAB. ASSOCIATE PROFESSOR CROSSLEY.

Course VI. is elective for those who have taken Course V. With the permission of the instructor, it may be elected for two periods a week.

VII. ADVANCED ORGANIC CHEMISTRY. Lectures and laboratory. Each laboratory exercise occupies 2½ hours. Lectures on Mondays at 3. *Mon., at 3, and two, or three, other assigned periods.* CHEM. LAB. ASSOCIATE PROFESSOR CROSSLEY.

Course VII. is elective for those who have taken Course VI. It may be elected for three or four periods a week.

VIII. PHYSICAL CHEMISTRY. A course devoted to the systematic treatment of modern chemical theory, and the application of this theory to some of the more important chemical problems. The effect of the variables, heat, light, pressure, and electricity, is studied in detail. Special attention is given to the mass law and the phase rule. The third assigned period at times consists of a laboratory exercise in physico-chemical measurements, such as molecular weight determinations, heat of solution, conductivity of electrolytes,

electro-motive force, etc. *Tu., Th., at 12; Sat., at 10.* 3 J. H. ASSOCIATE PROFESSOR HOOVER. (XI.)

Course VIII. is elective for those who have taken, or are taking, Course V.

[IX.[1] INDUSTRIAL CHEMISTRY. Lectures and collateral reading. The purpose of the course is to give a broad, cultural idea of the chemical processes involved in the manufacture of products of value in modern every-day life. *Three times a week (first half-year).* ASSOCIATE PROFESSOR HOOVER.]

Course IX. is elective for those who have taken, or are taking, Course V. It is omitted in 1915–16.

*X.[2] ELECTRO-CHEMISTRY. Lectures. Theories of the conduction of the electric current by solutions, of electrolysis, and of the source of electricity in a galvanic cell. The application of these theories to processes for the preparation of compounds, to the electrothermal and electrolytic extraction and refining of metals, to electro-plating, etc. *Mon., Wed., Fri., at 12 (second half-year).* 3 J. H. ASSOCIATE PROFESSOR HOOVER. (V.)

Course X. is elective, with the permission of the instructor, for those who have taken Course II.

[*XI.[2] APPLIED ELECTRO-CHEMISTRY. A laboratory course devoted to the study of the phenomena of electrolysis; measurement of electrical constants; determination of current and energy efficiencies in electrolytic work; study of commercial methods of electrolytic plating and refining of metals, and the electro-chemical preparation of pigments and of organic and inorganic compounds in general. Each exercise occupies 2½ hours. *Two exercises a week, the hours to be determined (second half-year).* ASSOCIATE PROFESSOR HOOVER.]

Course XI. is elective, with the permission of the instructor, for those who have taken, or are taking, Courses IV. and X. in chemistry, and Course VII. in physics. It is omitted in 1915–16.

[*XII.[2] PHYSIOLOGICAL CHEMISTRY. A lecture course devoted to the study of the chemistry of foods, digestion,

EXAMINATION GROUPS.

No student is allowed to take more than one course in any of these groups, with the exception of those (bracketed together) which are not given in the same half-year or on the same day. The following courses are not assigned to any group, and may be elected without limitation: XIX. Latin; A, B Greek; Hebrew; Public Speaking; VI. History; IX. Economics; III.A, IV. Philosophy; V. Psychology; VI. Astronomy; II., VIII., X., XI., XII. Physics; II.B, III., IV., VI., VII., XV. Chemistry; VII., VIII., IX., X., XI. Biology.

I.—*M.*, *W.*, *F.*, *at 8.*

II. Greek, *W.*, *F.*
VII. Greek.
{ VI. German.
{ VIII. German.
IV. French, *W.*, *F.*
I. History.
X. History.
II. Psychology.
{ I. Mathematics.
{ IV. Mathematics.
VII. Mathematics.

II.—*M.*, *W.*, *F.*, *at 9.*

{ XVII. Latin, *M.*, *W.*
{ XVIII. Latin, *M.*, *W.*
{ X. German.
{ XII. German.
II. Eng. Literature.
{ II. Mathematics.
{ III. Mathematics.
Zoölogy.

III.—*M.*, *W.*, *F.*, *at 10.*

XI. Latin, *M.*, *F.*
I. Greek.
[1]I. French.
Italian, *W.*, *F.*
VI. Eng. Literature.
III. History.
{ II. Philosophy.
{ III. Philosophy.
VI. Mathematics.
{ XI. Mathematics.
{ XII. Mathematics.
V. Astronomy.
I. Physics.
II. Geology.

IV.—*M.*, *W.*, *F.*, *at 11.*

I.A Latin, *W.*
XX. Latin, *M.*, *W.*
VII. Eng. Literature, *M.*, *W.*
[2]X. Eng. Literature, *F.*
VIII. Economics.
{ I. Philosophy.
{ I. Psychology.
VIII. Mathematics.
V. Chemistry.

1 May be elected with any one course in this group.
2 May be elected with VII. English Literature.

V.—*M.*, *W.*, *F.*, *at 12.*

XIV. Latin, *M.*, *F.*
{ XI. Greek.
{ XII. Greek.
II.B German.
I. Eng. Literature.
IV. Eng. Language, *W.*, *F.*
V. History.
VII. Economics.
III. Astronomy.
{ III. Physics.
{ IV. Physics.
X. Chemistry.
{ III. Geology.
{ IV. Geology.

VI.—*M.*, *W.*, *F.*, *at 3.*

III. Eng. Language, *M.*
[1]Hygiene, *W.*
{ General Biology, *M.*, *F.*
{ Botany, *M.*, *F.*

VII.—*T.*, *Th.*, *S.*, *at 8.*

II. French.
III. French, *Th.*
VIII. History.
II. Economics.
{ I. Ethics.
{ II. Ethics.
V. Mathematics, *T.*, *Th.*
I.A Physics, *Th.*
Bacteriology, *T.*, *Th.*

VIII.—*T.*, *Th.*, *S.*, *at 9.*

I. Latin.
IX. Latin, *T.*, *Th.*
IV. German.
I. Economics.
VI. Economics.
XIV. Mathematics.
IV. Phys. Education.

IX.—*T.*, *Th.*, *S.*, *at 10.*

VI. Latin, *T.*, *Th.*
VI. French, *T.*
[2]Dante in English, *Th.*
I. Eng. Language, *T.*, *Th.*
VII. History.
IV. Psychology, *T.*, *Th.*
English Bible.
IX. Mathematics.
VII. Physics.
I. Chemistry.

X.—*T.*, *Th.*, *S.*, *at 11.*

IV. Greek, *T.*, *Th.*
[3]I. German.
II.A German.
VI. Eng. Language, *T.*, *Th.*
IV. Economics.
I. Astronomy.
II.A Chemistry, *S.*
XIV. Chemistry.
Physiology, *T.*, *Th.*

XI.—*T.*, *Th.*, *at 12.*

{ II. Latin.
{ III. Latin.
IX. Greek, *T.*
III. German.
Spanish.
VII. Eng. Language.
Science and Religion.
II. Astronomy.
VIII. Chemistry.

XII.—*T.*, *Th.*, *at 3.*

VI. Ethics, *T.*
Physical Geography.

1 May be elected with General Biology and Botany.
2 May be elected with VI. French.
3 May be elected with any one course in this group.

REQUIREMENTS FOR GRADUATION.

FRESHMAN YEAR.

I. FOR CANDIDATES FOR THE B. A. DEGREE.

Each student must elect not less than *fifteen* nor more than *eighteen* hours per week from the following courses, including I. English Language and Hygiene, which are required of all. The choice must include one three-hour course in Latin or Greek, and one three-hour course from the following: Latin, Greek, mathematics, a modern language.

	Hours per week.
I. English Language,	3
I. Latin,	3
I.A Latin,	1
A Greek,	4
B Greek,	1
I. Greek,	3
I., II., III., IV. Mathematics, each,	1½
I. French, I. German, each,	3
II. French, II. German, each,	3
I. History,	3
I. Physics,	2 or 3
I.A Physics,	1
I., II., III. Astronomy,	1½ or 3
I. Chemistry,	2½ or 3
Physical Geography, General Biology, Botany, each,	1
Hygiene,	1

II. FOR CANDIDATES FOR THE B. S. DEGREE.

Each student must elect not less than *fifteen* nor more than *eighteen* hours per week from the following courses, including I. English Language and Hygiene, which are required of all:

	Hours per week.
I. English Language,	3
I., II., III., IV. Mathematics, each,	1½
I. French, I. German, each,	3
II. French, II. German, each,	3

	Hours per week.
I. History,	3
I. Physics,	2 or 3
I.A Physics,	1
I., II., III. Astronomy,	1½ or 3
I. Chemistry,	2½ or 3
Physical Geography, General Biology, Botany, each,	1
Hygiene,	1

Of the following courses, such as are not presented for admission must be passed in college:

I. Mathematics, and either II., III., or IV. Mathematics; I. French and II. French; I. German and II. German.

SOPHOMORE, JUNIOR, AND SENIOR YEARS.

A student must elect in Sophomore and Junior years not less than *fifteen* nor more than *eighteen* hours per week of study, in Senior year not less than *thirteen* nor more than *eighteen* hours per week of study. In the Sophomore year rhetorical exercises are required, which are rated as the equivalent of one hour per week, to be included in the prescribed quota. The requirement for graduation is *sixty* hours of work, inclusive of rhetorical exercises. After the Freshman year there are no required studies, except Sophomore rhetorical exercises; but the election of studies must conform to the following requirements:

A. GROUP SYSTEM.

The departments of study, except Physical Education, are arranged in the following groups:

Group I.	Group II.	Group III.
Latin,	History,	Mathematics,
Greek,	Economics and Social	Astronomy,
German,	Science,	Physics,
Romance Languages,	Philosophy,	Chemistry,
English Literature,	Psychology,	Geology,
English Language.	Ethics and Religion.	Biology.

A student's courses, including those of the Freshman year, must include at least *twelve* hours from Group I., and at least *nine* hours from each of Groups II. and III. The following

courses, which are offered in college, if taken in preparatory school and presented for admission, may be counted in making up this requirement: Intermediate French (II. French), Intermediate German (II. German), Advanced Mathematics (I., II., III., IV. Mathematics).

B. MAJOR STUDIES.

A student must elect a major study, the requirement for which is not less than *nine* nor more than *twelve* hours' work per week for a year in a department, the studies constituting the major to be elected with the approval of the senior instructor in the department in which the major is elected. The major may consist wholly of studies in one department, or partly of studies in cognate departments, so chosen as to make a consistent program. The following courses will not be allowed to count in making up a major:

I. English Language, the rhetorical exercises of the Sophomore year, Public Speaking, I. French, I. German, I. Chemistry (first-half), Botany, Physical Geography.

The following courses may be offered for a major, even though they have been taken in preparatory school and offered for admission: I., II. French; I., II. German; I., II., III., IV. Mathematics.

DEPARTMENTAL AND OTHER LECTURES, 1914-1915.

THE GEORGE SLOCUM BENNETT LECTURESHIP FUND.

A gift of twenty-five thousand dollars from Mrs. Ellen N. Bennett, Mrs. Martha Bennett Jones, R. Nelson Bennett, and Z. Platt Bennett, of Wilkes-Barre, Pa., has been combined with a gift of ten thousand dollars in 1907 from George Slocum Bennett, of the class of 1864, into a fund to be known as The George Slocum Bennett Lectureship Fund, in memory of Mr. Bennett, who died January 2, 1910. The income is to be used

"in defraying the expenses of providing for visiting lecturers, preachers, and other speakers supplemental to the college Faculty."

In addition to the regular Courses of Instruction, lectures are given each year under the auspices of various departments or associations connected with the University. Most of these lectures are open to the public. In 1914–15 were given the following:

DEPARTMENTAL LECTURES.

DEPARTMENT OF HISTORY. — Professor Henry Morse Stephens, University of California: The History of the Pacific Ocean (four lectures). 1. The Spanish Domination. 2. The Spanish Domination Challenged. 3. The Period of Partition. 4. The United States becomes a Power in the Pacific.

Doctor George Haven Putnam, New York City: The Men Behind the Guns.

Reverend Asa Edward Kelsey, of the American Friends' School, Ramallah, Palestine: Present Conditions and Problems in the Turkish Empire.

DEPARTMENT OF CHEMISTRY. — Doctor Grinnell Jones, Harvard University: The Uses of Chlorine.

MIDDLETOWN SCIENTIFIC ASSOCIATION.

The Middletown Scientific Association, founded in 1871, has a membership of about one hundred, taken partly from the college and partly from the town. Regular meetings are held on the second Tuesday of every month during the college year, in the lecture-room of the John Bell Scott Memorial. During 1914–15 the following addresses were given:

Doctor Felice Ferrero: Ancient Foundations of Modern Science.

Professor Slocum: Astronomical Photography.

Professor Crossley: Triumphs of Applied Chemistry.

Mr. F. C. Henderschott, of the New York Edison Company: Industrial Education.

Professor Arthur Horace Blanchard, Columbia University: Economic Phases of Highway Engineering.

Doctor James Huff McCurdy, International Young Men's Christian Association College: Ventilation.

Professor Rice: Vancouver to Yakutat Bay.

Professor Herbert Eugene Walter, Brown University: Theories of Bird Migration.

Professor Whitney: Recent Studies in Sex Regulation.

THE CLASSICAL CLUB.

The Classical Club was founded in 1906 by about twenty of the students taking classical courses. Meetings are held once a month during the college year. The following informal addresses were given before the club in 1914–15:

Professors Heidel and Gillet: The Influence of Classic Writers on English Poetry.

Doctor Fauver: Ancient Athletes.

Professor Nicolson: The Migration of Fables.

Professors Heidel and Dutcher: The Dardanelles and the Black Sea.

LA SOCIÉTÉ FRANÇAISE.

A French club was founded in 1907 by a number of students taking courses in the department of romance languages. In the fall of 1909, the club was reorganized under the title of La Société Française, holding fortnightly meetings at the fraternity houses. The following addresses were given in 1914–15:

Professor Kuhns: Récentes Expériences en Europe.

Doctor Felice Ferrero: La Socialisme en Europe.

Professor Mann: Versailles et Herrenchiemsee.

Miss Mabel Dyer, of Newton, Massachusetts: Expériences à l'Université de Grenoble.

Professor Mead: La Tapisserie de Bayeux.

DER DEUTSCHE VEREIN.

A club was organized October 23, 1909, by undergraduates for further practice in the German language and the study of German culture. Those undergraduates are eligible for active membership (the number being limited to thirty) who are taking or have taken courses in German more advanced than

Course II. Members of the Faculty and graduate students may be elected to honorary membership. Meetings are held semi-monthly in rooms in East Hall, where the Verein maintains a German reading-room. Programs, arranged with the advice of the teaching staff in the department, include addresses by instructors in German in other institutions, papers by members, plays, etc. The following addresses were given in 1914–15:

Doctor Karl P. Morba, Hartford Public High School: Persönliche Erfahrungen in Deutschland am Anfang des Krieges.

Doctor Friedrich Schoenemann, Harvard University: Deutschland im Kriege.

Mr. Fred Donald Carpenter, B. A., Sheffield Scientific School: Beobachtungen in Deutschland am Anfang des Krieges.

Doctor Georg Kartzke, Yale University: Die "Sports" in Deutschland.

Professor Arthur Joseph Remy, Columbia University: Wagners Opern.

Mr. Ernest Raymond Dodge, '14: Goethe und die Damen.

Professor Willard Hoyt Worrell, Hartford Theological Seminary: Das Volk in Aegyptien.

Doctor Howard Wadsworth Church, Yale University: Erfahrungen als Austauschlehrer in einer deutschen Schule.

Mr. Carl Edward Kieser, Williams, '17: Franz von Sickingen.

Mr. Karl Nickerson Llewellyn, Yale, '15: Erfahrungen als Freiwilliger im jetzigen Kriege.

THE WESLEYAN POLITY CLUB.

The Social Study Club, organized in 1911, has changed its name to the Wesleyan Polity Club. All undergraduates are eligible to membership. The following addresses were given in 1914–15:

Doctor Edward Nicholas Clopper, Secretary of the Child Labor Committee for the Northern States: Child Labor.

Mr. Oswald Garrison Villard, Editor of the *New York Evening Post*: Should America Arm?

Doctor John Mez, a former Prussian officer: European Militarism.

Mr. Hamilton Holt, Editor of *The Independent*: The Great War and Peace.

THE RADIO CLUB.

The Radio Club was founded in 1914 by instructors and advanced students in the department of physics. All students taking courses in physics who have completed Course VII. are eligible for active membership. Meetings are held every two weeks in the Scott Laboratory for the discussion of matters of interest in wireless telegraphy and for practice in the use of apparatus.

In addition to informal papers by members of the club, the programme for 1914–15 included the following address:

Mr. Hiram Percy Maxim, of Hartford: The Relation of the Wireless Amateur to the Government.

THE WESTGATE CLUB.

The Westgate Club is named in honor of George Lewis Westgate, of the class of 1865, who, as Professor of History and Political Economy from 1880 to 1885, was the first head of the history department in Wesleyan University. The club was organized November 16, 1914, by ten students in the department of history. Those undergraduates are eligible for membership who are taking the seminary course, who are registered for a major in the department, or who are taking work in the department equivalent to a major. Several members of the Faculty have been elected to honorary membership. Meetings are held at convenient intervals, usually at the fraternity houses. Among the speakers of 1914–15 were:

Professor Henry Morse Stephens, University of California: The Interpretation of History.

Professor Dutcher: Militarism *versus* Pacifism.

THE COLLEGE BODY.

The following speakers addressed the college body at informal gatherings during the year 1914–15:

Honorable Joseph Allen Baker, of London, England: The War in Europe.

Professor Henry Morse Stephens, University of California: Kipling and Tommy Atkins.

Mr. Thomas Mott Osborne, Warden of Sing Sing: Prison Reform.

GENERAL REGULATIONS.†

REGISTRATION.

Every student of the Junior, Sophomore, and Freshman classes is required to present to the Secretary of the Faculty, on or before the second Wednesday before Commencement, a list of the studies which he proposes to take the next college year. A fee of one dollar shall be paid by each student who fails to present such a list on or before that date. Every student is required to register at the beginning of the first term of each year, at which time changes may be made in the list of studies selected in June. At the same time, members of the Junior class are required to present the list of courses approved by the respective instructors for major studies. A fee of two dollars shall be paid by each student who does not register at the time appointed.

QUOTA OF STUDIES.

The requirement for graduation is sixty hours of work. Freshmen, Sophomores, and Juniors must take not less than fifteen nor more than eighteen hours of work per week, and Seniors not less than thirteen nor more than eighteen hours per week. No student will be allowed to take less than the minimum nor more than the maximum above specified, without special permission of the Administration Committee. A fee of five dollars per hour for the year is charged for all courses taken in excess of eighteen hours per week.

GRADES.

The general character of the work of each student in each study is indicated by his assignment to one of five grades,

† Copies of the detailed Regulations may be obtained from the Secretary of the Faculty.

grade 1 denoting the highest excellence, and grade 5 failure to pass.

A student will not be graduated unless he attain a grade higher than fourth in sixty per cent of the work required for graduation.

The Secretary of the Faculty sends to each student, within three weeks after Commencement, a report of his grades in all the studies which he has taken during the year.

EXAMINATIONS.

Regular examinations are held at the end of the year, and during a specified period at the mid-year. The allowance of absence from recitations is, in courses running through the year, twice the number of required exercises a week; in courses running through a half-year the allowance is proportionately diminished. A student who has taken the allowed number of absences in any course, exclusive of those excused by the President or by the Committee on Athletic and Musical Organizations, must thereafter present an excuse for every absence taken in that course, and in case he have one unexcused absence or deficiency in addition to the number allowed, he is excluded from examination and must take a special examination later, paying a fee of five dollars. In the application of this rule, absences from the first or the last exercise of a term in any study, or consecutive absences including the first or the last exercise, are each reckoned as two absences. Absences of the same nature before or after the Thanksgiving recess are each reckoned as two absences.

Special written examinations are held during the week commencing with the Tuesday before the beginning of the first term for all who have been excluded or excused from any of the examinations of the previous year.

For the benefit of students who have not been examined in second half-year subjects, special written examinations are held during the first few days after the Christmas recess, at times announced by the Secretary of the Faculty. For these examinations application must be made before the close of the first term. A fee of five dollars is charged for each examination.

For the benefit of Seniors who have been excluded or excused from any of the examinations during the preceding part of the year, and for members of the lower classes who have been excused from such examinations, special written examinations are held during the first few days after the Easter recess, provided that application for such examination is made by the candidate before the close of the second term.

A student who fails to pass a final examination in any study before that study is taken up by the next succeeding class is required, unless specially excused therefrom, to recite with that class, or, in the case of an elective study, to substitute some other elective therefor.

PROMOTION.

In order to be promoted from the Freshman class to the Sophomore class, a student must, at the close of the Fall special examinations, have a record of passing in ten hours of college work, and he must have attained a grade higher than fourth in not less than six hours' work. In order to be promoted from the Sophomore to the Junior class, a student must have a record of passing in twenty-five hours of college work, and he must have attained a grade higher than fourth in not less than fifteen hours' work. In order to be promoted from the Junior to the Senior class, a student must have a record of passing in forty-two hours of college work, and he must have attained a grade higher than fourth in not less than twenty-four hours' work.

ENTRANCE CONDITIONS.

Conditions for admission may be made up at such time and in such manner as may be agreed upon between the student and the instructor. If any student shall fail to make up his conditions at or before the regular examination for admission at the beginning of the year following his admission to college, he will not be promoted to any higher class before the beginning of the next year succeeding.

PUBLIC WORSHIP.

Voluntary religious services under the direction of the Young Men's Christian Association are held weekly.

Devotional services, at which the attendance of students is required, are held in Memorial Chapel every week-day morning, and on Sunday afternoons.

The speakers at the Vesper Services of 1914–15 were as follows:

Reverend George Peck Eckman, Ph. D., D. D., ex-'84, Editor of *The Christian Advocate.*

Irving Bacheller, L. H. D., of New York City.

Reverend Millard Lyman Robinson, S. T. B., of New York City.

Reverend Rockwell Harmon Potter, D. D., of Hartford.

Reverend William DeVerne Beach, B. A., of Middletown.

Dean Lauress John Birney, D. D., Boston University School of Theology.

Professor Frederick Watson Hannan, D. D., '90, Drew Theological Seminary.

Professor William North Rice, LL. D., '65.

Professor Wallace MacMullen, D. D., Drew Theological Seminary.

Reverend George Clarke Peck, D. D., of Baltimore, Md.

Reverend William Henry Lindemuth, B. D., '86, of Pottsville, Pa.

Professor Robert William Rogers, Ph. D., Drew Theological Seminary.

Professor Albert Cornelius Knudson, Ph. D., Boston University School of Theology.

Reverend William Sherman Bovard, D. D., Secretary of the Methodist Brotherhood.

Reverend Charles Henry Stackpole, S. T. B., '86, of Lynn, Mass.

Professor Lewis Bayles Paton, Ph. D., D. D., Hartford Theological Seminary.

Reverend Edward Summerfield Ninde, D. D., '87, of Providence, R. I.

Bishop William Burt, D. D., LL. D., '79, of Buffalo, N. Y.

Reverend Robert Emet Brown, D. D., of Rochester, N. Y.

Bishop Luther Barton Wilson, D. D., LL. D., of New York City.

Reverend Leonard Colburn Murdock, D. D., '90, of Scranton, Pa.

Reverend George Preston Mains, D. D., LL. D., '70, of New York City.

Reverend John Gowdy, D. D., '97, President of the Anglo-Chinese College, China.

Professor Henry Burt Wright, Ph. D., Yale School of Religion.

Professor Harry Frederick Ward, M. A., Boston University School of Theology.

Reverend Christian Fichthorne Reisner, D. D., of New York City.

Reverend Edgar Blake, D. D., of Chicago, Ill.

Reverend Charles Wesley Burns, S. T. D., of Philadelphia, Pa.

Reverend Joseph Beech, D. D., '99, President of West China Union University.

Bishop Theodore Sommers Henderson, D. D., LL. D., '92, of Chattanooga, Tenn.

Professor Arthur Lincoln Gillette, D. D., Hartford Theological Seminary.

Reverend John Brownlee Voorhees, D. D., of Hartford.

Reverend Frank Mason North, D. D., '72, of New York City.

Reverend Frank Bruce Lynch, D. D., '81, of Philadelphia, Pa.

Reverend Alpha Gilruth Kynett, D. D., '78, of Philadelphia, Pa.

LEAVE OF ABSENCE.

A student who desires excuse from college exercises on account of absence from town must apply to the President for permission to be absent, and, unless the circumstances of the case render it impracticable, such permission must be obtained before the student's departure.

STUDENT ORGANIZATIONS.

No student who has failed of promotion from the class below, no student who is on probation or under censure, no member of the Freshman class who has entrance conditions exceeding two units, no special student, no graduate student, and no Senior who is permitted to count the Senior year in

fulfilment of the requirement of residence for the Master's degree, is allowed to take part, as a member of a University athletic team, in any athletic contest, or to appear in any public exhibition of any musical or dramatic organization, or to act as manager or assistant manager of any athletic, musical, or dramatic organization; and any student whose college work is unsatisfactory at any time during the college year may be debarred from taking part in such a contest or exhibition. No member of the Freshman class is allowed to represent the University on athletic teams during the first half of the year.

THE ATHLETIC COUNCIL.

In 1903 the Trustees authorized the organization of an Athletic Council, composed of three representatives each of the Faculty, the alumni, and the undergraduates. The Council has general supervision over the athletic affairs of the college, subject to certain veto powers retained by the Faculty. It administers eligibility rules, except as regards scholarship, approves schedules, ratifies the election of captains and managers, and controls the finances of the several departments of athletics, through a financial secretary. The officers of the council for 1915–16 are: Lewis E. Gordon, '94, President; Ralph C. Flewelling, '16, Vice-President; Professor Edgar Fauver, Secretary; Professor L. A. Howland, Financial Secretary.

EXPENSES.

The annual charges in the Assistant Treasurer's bill are as follows:—

Tuition, - - - - - - - - - - - -	$90 00
Incidentals, use of library and reading-rooms, etc.,	50 00
Total, - - - - - - - - - - -	$140 00

A fee of two dollars is charged for I. Chemistry, and a fee of one dollar for General Biology and for Botany. For the laboratory courses in physics, chemistry, and biology, fees are charged which vary with the nature of the course and with the number of exercises elected per week. The fee for each

exercise per week in practical physics, in practical biology, and in II. and XIII. Chemistry, is five dollars; in III., IV., VI., VII., and XI. Chemistry, eight dollars. The fees of graduate students in laboratory courses are determined by the instructor in each case. Students electing the chemistry courses named are required in addition to make a deposit of five dollars, which is refunded at the close of the course after charges for breakage have been deducted.

A diploma fee of five dollars is charged to each student at graduation.

A fee of five dollars is required of every candidate for the Master's degree before his course of study can be approved by the Committee on Graduate Instruction.

A diploma fee of ten dollars is charged to each graduate student upon promotion to the Master's degree.

The college bills are payable in advance for each semester on or before October tenth and February tenth, payment of the charge for tuition and incidentals, seventy dollars, on the bills due October tenth, being required of all students before they are allowed to register. Unless the bill for any semester is paid, or payment thereof guaranteed, on the day appointed, the student is liable to exclusion from recitations.

Students who leave college on account of illness will be granted a pro rata rebate on the charge for tuition and incidentals and on laboratory fees. Those who leave for any other reason will be charged for tuition, incidentals, and laboratory fees to the end of the half of the semester in which they leave. No rebate will be granted on room rent for the semester unless the room is rented to another occupant.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or payment thereof guaranteed.

A student who is absent from college on account of sickness, or for other cause, and who retains his place in his class, must pay the full college bills during his absence.

Board may be obtained in private families at prices varying from $3.75 to $5.00 a week. The college fraternities maintain clubs which supply board to their members at prices ranging from $3.50 to $5.00 a week. The price of board at the college dining hall is $3.00 a week.

Other expenses incident to college life vary with the habits and circumstances of the student. They are not, of necessity, so great as to be burdensome to persons in moderate circumstances. Instances have been extremely rare in which students of good ability and health have been compelled to leave college for want of money.

DORMITORY ACCOMMODATIONS.

North College, at the end of College Row, contains one hundred and one rooms that are available for students. The rooms are lighted by electricity, heated by steam, and provided with single beds, mattresses, chiffoniers, and desks. The prices indicated below include the care of the room. An extra charge for electric light is also made, the charge depending upon the electric power furnished. A diagram showing the location of rooms, with dimensions, also a price-list giving number of occupants allowed in each room, will be sent upon application to the Secretary of the Faculty.

A new dormitory, to accommodate about as many students as North College, is being built at the corner of Cross Street and Mount Vernon Street, on the southwest corner of the rear campus. It is expected that the building will be ready for use at the opening of the college year 1916–17.

Rooms are rented also in Observatory Hall and in East Hall, at a lower rate than is the case in North College. The rooms in East Hall are not furnished. Most of the rooms in both buildings are lighted with either gas or electricity, for which an additional charge is made.

When a room is assigned, a deposit of ten dollars ($10) must be made for a single room, twenty dollars ($20) for a two-room suite, and thirty dollars ($30) for a three-room suite. Each student must sign a contract binding him to pay the rent of the room and to occupy the room in person through the entire college year. The deposit will be forfeited in case the student fails to return to college or in case he does not enter; otherwise the deposit will be credited on his bill for room-rent. A further deposit of three dollars ($3) is required for each key furnished to occupants.

Students are permitted to take lodgings in town, but the places in which they room or board are in all cases subject

to the approval of the Faculty. If any of the rooms in the college are thus left vacant, the rent of such rooms may be charged to holders of free scholarships who room in town.

Application for rooms should be made to the Secretary of the Faculty.

PRICES OF COLLEGE ROOMS.

North College (Furnished Rooms).

No.	Rent.	Heat.	No.	Rent.	Heat.	No.	Rent.	Heat.
1, 2	$110	$24	35	$60*	$16	69	$60*	$20
			36	80	20	70		
3	80	20	37, 38	110	24	71, 72	125†	30
4	50	16				73	50	16
5, 6	100	24	39, 40	110	24	74	50	16
7	60*	20	41	50	16	75, 76	110	24
8	50	16	42	50	16			
9	80	20	43			77, 78	110	24
10, 11, 12	125†	30	44, 45	125†	30	79	80	20
			46	60*	20	80	60*	20
13, 14	110	24	47			81, 82	100	24
			48, 49	125†	30			
15	50	16				83, 84	100	24
16	50	16	50	50	16	85	60*	20
17, 18, 19, 20, 21, 22	125†	30	51	50	16	86	80	20
			52, 53	110	24	87, 88	110	24
			54, 55	110	24			
			56	60*	16	89, 90	110	24
23	50	16	57, 58	100	24	91	50	16
24	50	16				92	50	16
25, 26	110	24	59, 60	80	20	93, 94	100	24
			61, 62	110	24	95	50	20
27, 28	110	24				96, 97	100	24
29	80	20	63, 64	110	24			
30	60*	16		50	16	98	50	16
31, 32	100	24	65, 66	50	16	99	50	16
						100, 101	110	24
33, 34	100	24	67, 68	125†	30			

* Rent $75, if occupied by two persons.
† Rent $150, if occupied by three persons.

Observatory Hall (Furnished Rooms).

No.	Rent.	Heat.	Remarks.
1	$55	$12	Rent $60, if occupied by 2 persons.
2, 4	90	20	" 100, " " 3 "
3	45	12	
6	50	12	" 55, " " 2 "
7	50	12	" 55, " " 2 "
9	50	15	" 55, " " 2 "
10	50	12	" 55, " " 2 "
11	80	15	" 90, " " 2 "
12	90	20	" 100, " " 3 "
13	90	16	" 100, " " 3 "
14	90	18	" 100, " " 3 "
15	50	15	" 55, " " 2 "
16	55	15	" 60, " " 2 "
17	50	15	" 55, " " 2 "
18	45	12	
19	100	18	" 110, " " 3 "
20	100	18	" 110, " " 3 "

East Hall (Unfurnished Rooms).

No.	Rent.	Heat.	No.	Rent.	Heat.	No.	Rent.	Heat.
1	$85	$16	10	$75	$16	16	$45*	$12
2	85	16	11	75	16	17	45†	12
5, 6	60	15	12	75	16	18	45*	12
			13	45*	12	19	45*	12
8	45	12	14	45*	16	20	45*	12
9	75	16	15	45*	15	21	35	12

* Rent, $60 for two persons.
† Rent, $55 for two persons.

COLLEGE DINING HALL.

In order to reduce the expense of a college course, the college maintains a dining hall, where board may be obtained at a low rate. There is accommodation for about one hundred boarders. The college is responsible for the general management, the details being in charge of a matron who is responsible to a college officer. Bills are paid into the college treasury, and the college assumes all financial responsibility. The rate of board is at present three dollars a week.

MATERIAL EQUIPMENT.

NEW BUILDINGS.

WILLBUR FISK HALL, opened in the summer of 1904, is occupied by the departments of language, literature, history, economics, and philosophy. It is of Portland brownstone and practically fireproof, 113 by 62 feet in dimensions, three stories in height above a lofty and well-lighted basement story, and cost one hundred and fourteen thousand dollars. It contains ten private studies for professors in charge of departments, fourteen lecture-rooms, seven commodious seminary rooms, and a well-appointed psychological laboratory.

In the planning and construction of the building careful attention was paid to matters of heating, lighting, ventilation, and drainage. It is believed that in dignity of external appearance, interior finish, convenience of arrangement, and adaptation at all points to the uses for which it is designed, it is a model college building.

THE JOHN BELL SCOTT MEMORIAL, a new Physical Laboratory, was completed in 1904 at a cost of one hundred and eighteen thousand dollars. It is the gift of the late Charles Scott and of his son, Charles Scott, of the class of 1886, in memory of John Bell Scott, of the class of 1881, who died of disease contracted while serving as Chaplain of the U. S. Cruiser *St. Paul* during the Spanish-American war.

It is a beautiful and imposing building constructed of Harvard brick and Indiana limestone. Its main part has a frontage of 102 feet and a depth of 51 feet, and in the rear is an extension 50 by 30 feet. The building consists of basement, three stories, and attic, except that the third story is omitted in the extension. The main lecture-room contains nearly two hundred seats, and there is a second lecture-room which is used for small classes, and also contains draughting tables for the use of the class in descriptive geometry. The building

contains twenty-two rooms for experimental work, elementary and advanced, in addition to lecture and apparatus rooms, photographic dark-rooms, storerooms, offices, a library, and a room for draughting and computing. There is also a tower 4 by 6 feet in cross section, with a height of 54 feet in the clear, which can be used for experiments requiring great vertical extension.

The building is equipped with an exceptionally extensive and complete system of wiring for the purpose of distributing to all points, for experimental use, electric currents from the city mains as well as from the storage battery and generators in the basement. For the most part the interior is finished with exposed brick walls, painted a light tint, and with exposed floor timbers and pipe work.

THE NEW NORTH COLLEGE was occupied as a dormitory in January, 1908. It is of Portland brownstone, practically fireproof, 152 by 48½ feet in dimensions, four stories in height above a basement, and cost about $135,000. The building contains one hundred and one rooms, arranged to satisfy varying demands. There are lavatories in the basement and on the third floor, supplied with tub and shower baths. The floor construction is of reinforced concrete throughout, and the stairs of iron and slate. The building is heated by steam from the central heating plant, and all rooms are lighted by electricity. All partitions in the basement, corridors, and stair-wells are of hollow terracotta brick.

SOUTH COLLEGE, which formerly was used for recitation rooms and studies, has been remodeled to serve as an administration building. The entrance to the building has been raised and a new flight of steps constructed as an approach. The old wooden staircases have been replaced by new ones of iron, with slate treads. The first floor is used as a storeroom by the library. The second and third floors contain private offices for the President and the Secretary of the Faculty, a stenographer's room and a storeroom, and a spacious room, finished in quartered oak, used for Faculty meetings and as a general office. On the fourth floor are a number of two-room suites for dormitory use.

SWIMMING POOL. Through the generosity of a friend of the college, an addition has been built on the east end of the gymnasium in which a swimming pool has been constructed, measuring sixty by thirty feet. The cost of the structure is approximately forty thousand dollars. The pool was opened for use in January, 1914. A more detailed description will be found on page 129.

LIBRARY AND READING ROOMS.

THE LIBRARY in Rich Hall contains about one hundred and two thousand volumes. The library is open every week-day of the college year from 8 A. M. to 10 P. M. Students are allowed direct access to the shelves.

The increase of the Library is provided for from the income of the following funds, amounting to $102,096:—

THE ALUMNI LIBRARY FUND, $37,760, the aggregate of numerous gifts from alumni and friends of the University.

THE HUNT LIBRARY FUND, $32,350, established by Rev. Albert Sanford Hunt (B. A., 1851, D. D., 1873), of Brooklyn, N. Y.

THE WILCOX LIBRARY FUND, $21,566, established by Mrs. Harriet H. Wilcox, of Brooklyn, N. Y.

THE WISE LIBRARY FUND, $5,134, for the purchase of scientific books, established by Rev. Daniel Wise, D. D., of Englewood, N. J.

THE MEAD LIBRARY FUND, $5,132, established by Miss Elizabeth J. Mead, of Stamford, Conn.

THE GONA LIBRARY FUND, $154, established by a friend of the department of chemistry for the purchase of books for that department.

In the basement of Fisk Hall is a reading-room, provided with daily and weekly newspapers. Another reading-room, on the second floor of Rich Hall, contains the current issues of the important magazines and reviews.

THE VAN VLECK OBSERVATORY.

The Van Vleck Observatory was completed near the end of 1915. This building is the gift of the late Joseph Van Vleck, brother of the late Professor John Monroe Van Vleck, and is located on the top of a hill about three hundred yards due west of the Chapel. It is constructed of Portland brownstone.

The main part of the building is 40 by 80 feet, one-story high, and contains a class-room, library, time-room, computing-room, director's office, and an assistant's room. In a wing extending to the west is a transit-room, with piers for two three-inch transits. At the end of a second wing, extending to the east, is the tower and dome for the chief instrument, a telescope of 18½ inches aperture, and 26 feet focal length. The completion of the lens for this instrument has been delayed by the war, and the 12-inch lens from the old observatory will be used temporarily in the new mounting.

For convenience in observing, the floor of the tower is an elevator, 33 feet in diameter, with a vertical range of 10 feet.

The basement contains two rooms for photographic work, a spectroscopic laboratory, and a workshop.

In addition to the telescope and two transits mentioned above, the observatory has a good equipment of apparatus for instruction and research. This includes three portable refractors, two spectroscopes, filar micrometer, photometer, altazimuth instrument, reflecting circle, two sextants, a 4-inch photographic doublet, two clocks, two chronometers, chronograph, comparator for photographic plates, and a computing machine.

LABORATORIES AND APPARATUS.

THE LABORATORY OF EXPERIMENTAL PSYCHOLOGY occupies four rooms in Fisk Hall: a general laboratory and lecture-room, a smaller research laboratory, a construction and apparatus room, and a physiological dark-room. These rooms were designed expressly for their present use and contain electrical and other fittings of the most approved sort. The equipment of the laboratory is being increased to meet the demands of research as well as for more adequate class-room demonstration and elementary laboratory exercises. Among the more

recent acquisitions may be mentioned: a set of preparations of the brain and spinal cord, a pendulum-tachistoscope, a projection apparatus designed for experimental purposes as well as for the projection of lantern slides, a mirror exposure apparatus of new design for studies in the psychology of reading, a microscope sphygmograph and registering device, and an Einthoven spring-galvanometer. The latter combine to give the benefit of a complete "heart-station."

THE PHYSICAL LABORATORY occupies the John Bell Scott Memorial, for a description of which see page 123. It is equipped with apparatus for the performance of the experiments usually undertaken in undergraduate courses, and offers also opportunity, in certain lines, for advanced work on the part of graduate students. In electricity, particularly, facilities are afforded for instruction in the use of the most important electrical instruments and machines, and for extended tests and investigations, especially in the line of alternating currents, electric oscillations, and discharge through gases.

In addition to the electrical equipment of the Scott Laboratory the dynamo-room in the boiler house contains a 25-horse-power Ball engine, and a 17½-kilowatt General Electric direct-current generator, with accessory apparatus.

THE CRAWFORD MEMORIAL FUND. A fund of five thousand dollars has been given by Hanford Crawford, of St. Louis, in memory of the Reverend Morris D'Camp Crawford, who was a trustee of Wesleyan University from 1871 to 1896. The proceeds of this fund are devoted to the purchase of apparatus for the department of physics, or to the promotion of research in the same department.

THE CHEMICAL LABORATORY finds accommodation on the lower floors of Judd Hall. Two lecture and recitation rooms provide facilities for class instruction. The larger of the two is capable of seating one hundred and ten persons.

The laboratory courses are likewise accommodated in two rooms, one of which is reserved exclusively for the use of students in quantitative analysis. In the other, which is the general laboratory room, there are desks for more than fifty students.

The very valuable library of chemical periodicals collected by the late Professor Atwater is housed in the chemical laboratory and is accessible to instructors and students alike.

THE CRYOGENIC LABORATORY furnishes facilities for demonstration and for research at low temperatures. Its main equipment consists of a liquid-air plant, including an electric motor, a Norwalk compressor which delivers about twenty cubic feet of air per minute at a pressure of 3,000 pounds, and a liquefier. The capacity of the liquefier is about five liters of liquid-air per hour.

THE BIOLOGICAL LABORATORY occupies six rooms in Judd Hall, and is capable of accommodating about thirty students. Five rooms are used for general laboratory purposes, of which two are devoted to miscellaneous laboratory work, one to general laboratory work of large classes, one to coarse dissection, and one to bacteriological work. The laboratory is equipped with all the apparatus necessary for elementary biological work, and is provided with an abundance of material for anatomical and histological study. The general laboratory room contains a type collection illustrating all orders of animals, and students are allowed to use the large museum collection for comparison and direct study. The laboratory is especially well equipped for bacteriological work. Advanced students of the department have also the advantage of the use of the State Bacteriological Laboratory, located in the John Bell Scott Memorial.

THE AMOS JAY GIVENS BIOLOGICAL FUND.—A fund of twenty-five thousand dollars has been given by Amos Jay Givens, M. D., LL. D., of Stamford, the income of which is to be used for the equipment and maintenance of the department of biology, or for the promotion of research in that department.

THE MACHINE SHOP occupies the west room in the boiler house, and is in charge of a skilled mechanician. It is equipped with first-class power lathes, planer, shaper, etc., and affords ample facilities for the construction of new apparatus, for purposes both of demonstration and of investigation; for the repair of apparatus already in use; and, to a limited extent, for the instruction of advanced students who have exceptional mechanical aptitude.

MATHEMATICAL MODELS. This collection, the gift of Ebenezer Hill (B. A., 1870), of South Norwalk, Conn., comprises a complete set of the models made by Brill of Darmstadt, for illustration in the higher branches of mathematics, as well as in mathematical physics and crystallography. The models are arranged in a series of cases in the mathematical reading-room in Observatory Hall.

GYMNASIUM AND ATHLETIC FIELD.

THE FAYERWEATHER GYMNASIUM is located on the north side of the rear campus, parallel with Wyllys Street. Its dimensions are 55 by 205 feet.

The basement contains a baseball cage, a large room for shower baths, a room adjacent for rubbing and drying, a large locker room, and toilet rooms. On the first floor is the main hall of the gymnasium, which is well equipped and affords ample room for every variety of gymnastic exercise. The director's office and a dressing room for members of the Faculty are also on the first floor. Attached to the director's office is a private room for the college physician, which is used for consultation and examination. Special attention has been paid to ventilation, drainage, and lighting, and the building is believed to contain the best features of a modern gymnasium.

An addition to the main building, completed in January, 1914, contains a swimming pool measuring sixty by thirty feet. The pool is lined with white ceramic tiles, with lanes in the bottom marked in blue, and is equipped with a life-rail and gutter, with markings showing depth and distances. The walls are of water-proof concrete painted brown, and the walk around the pool is of white tiles. The pool is nine and a half feet deep at the east end, and four feet deep at the west end. There is a gallery at the west end, entered from the main floor of the gymnasium. The pool is lighted by large windows at the east end, and by windows on the sides. Artificial lighting is furnished by a system of reflected light. Provision is made for a system of refiltering, and the pool is in every way sanitary. Above the pool are two excellent hand-ball

and squash courts. A 12-lap running track, with a 45-yard straightaway, encircles the whole of the second floor.

Exercise in the gymnasium and on the athletic field is required of the Freshman class three hours a week for the year, and of the Sophomore class in the gymnasium three hours a week from Thanksgiving until the end of the winter term. Elective work in the gymnasium is offered to the Junior and Senior classes. A well developed system of intramural sports affords opportunities for all to engage in competitive games.

THE ANDRUS FIELD lies in the rear of the main line of college buildings, just south of the gymnasium. A quarter-mile cinder track, with a "straight-away" of 100 yards, encircles one portion of the field, within which ample room is afforded for baseball and field and track athletics. Football is played in another part of the field which has recently been improved for the purpose. The entire field, covering seven acres, provides sufficient space for class and 'varsity teams to practise at the same time. Its proximity to the college enables the whole student body to keep in touch with the training in all branches of athletics, and affords the teams an opportunity to use the dressing-rooms and baths reserved for them in the gymnasium.

At the southern end of the field is a covered grand-stand, capable of seating four hundred persons. There are also movable bleachers seating about 2,000 spectators.

MUSEUM.

THE MUSEUM OF NATURAL HISTORY AND ETHNOGRAPHY occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to their educational use, and are freely accessible to students.

The nucleus of the departments of zoölogy and botany was formed by the Shurtleff collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The zoölogical department received in the years between 1872 and 1881 most important accessions in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England,

through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland also added large and valuable collections. Valuable collections of insects were presented by Richard L. de Zeng in 1896, and by Mrs. E. K. Hubbard in 1898. In 1908 a fine collection of birds' nests, and a collection of alcoholic reptiles and amphibians, from Portland and Cromwell, was received from Mr. Charles H. Neff. At the death of Mr. Neff in 1911, his entire collection came as a legacy to the museum. The collection is rich in skins, mounted specimens, and eggs of the birds of Portland and vicinity. The zoölogical department includes about thirteen thousand species. The vertebrata of North America, the marine invertebrata of New England, and the mollusca in general, are especially well represented.

The herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the university in 1879. The herbarium of Rev. Merrill Hitchcock, B. A., including about 700 specimens, of which about 200 are from Connecticut, was presented to the museum in 1908.

The mineralogical department includes about three hundred and fifty species, and a much larger number of varieties. The Franckfort collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated are well represented by collections commenced by the labors of Professor Johnston (1835–1868), and largely increased in later years. Important accessions were obtained in 1899 by collecting trips to Nova Scotia and to Herkimer County, N. Y. The Sheldon collection, purchased in 1904, includes many beautiful and valuable specimens.

The geological department includes collections in lithology, physical geology, and paleontology. The lithological collection received in 1897 a valuable accession in the gift of a set of the educational series of rock specimens described in Bulletin No. 150 of the U. S. Geological Survey, presented by the Survey. A suite of Ward's casts of fossils, presented by

Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique. A valuable collection of Tertiary fossils was received in 1887 from the Smithsonian Institution, in exchange for duplicate shells from the Shurtleff collection. The collections in paleontology have been very largely increased since 1893 by the work of the late curator, S. Ward Loper, M. A., in the vicinity of Middletown, at Valcour Island, Lake Champlain, in western Maryland, in the vicinity of Chattanooga, Tenn., Cañon City and Florissant, Col., and Fossil, Wyo., and in Nova Scotia. Especially important among these accessions are the collections of fossil fishes and plants from the Triassic shales of the Connecticut valley, and of Tertiary fishes and plants from Fossil, Wyo., and Tertiary plants and insects from Florissant, Col. A choice collection of European fossils, including a number of beautiful specimens from the lithographic limestone of Solenhofen, was received in 1895 from the University Museum of Munich, in exchange for American fossils. The private collection of Mr. Loper, purchased for the museum in 1900, is very rich in fossil fishes and plants from the fossiliferous shales of the vicinity of Middletown.

The ethnographical department is especially rich in specimens illustrating the life of the aborigines of North America. Important contributions of pottery, casts of implements, models of dwellings, and other objects, have been received from the Smithsonian Institution. A very valuable collection of objects from burial mounds near Chattanooga, Tenn., was deposited in the museum in 1896 by Hon. A. R. Crittenden, and has since then been purchased. The private collection of Mr. Loper, purchased in 1903, contains many interesting Indian relics from the vicinity of Middletown. The collection of local Indian relics has been greatly increased by the legacy of Charles H. Neff in 1911. The department also possesses a valuable collection of pottery from the guano beds of Peru, presented by Joseph S. Spinney; a collection of Mexican antiquities, presented by Hon. Arnold Shanklin, late United States Consul-General in Mexico; an interesting collection of weapons and other objects from the South Sea Islands; a collection of weapons and implements from equatorial West

Africa, presented by Frederick B. Northam; a collection of relics from Assuan, Egypt, presented by Clarence S. Wadsworth, B. A.; and valuable collections of objects illustrative of Chinese life and customs, presented by Rev. Marcus L. Taft, D. D., Mrs. W. W. Wilcox, Rev. John Gowdy, D. D., and Rev. Joseph Beech, D. D. The collection of coins numbers about 4,500, exclusive of duplicates. Included in this number is a collection of about 1,800 Chinese coins, some of which are ancient and very rare, presented by Rev. Marcus L. Taft, D. D. Other valuable collections of Chinese coins have been received from Rev. John Gowdy, D. D., and Rev. Joseph Beech, D. D. A valuable collection of Greek and Roman coins and facsimiles of such coins, historical medals, and copies of such medals, was presented to the museum in 1906 by Stephen H. Olin, LL. D. Additional specimens subsequently presented by Dr. Olin make the number of specimens in this collection more than 600. The greater part of the ethnographical collection is at present arranged in the lower hall of the museum, with the collections in mineralogy and geology. The coins (with the exception of the Olin collection and certain other special collections placed on exhibition in the museum) are kept in a case in the classical seminary room in Fisk Hall, where they can be seen by students and others on special application.

The following is an approximate statement of the number of specimens in the various departments of the museum:—

DEPARTMENT OF ZOÖLOGY.

Mammals—skins mounted and unmounted,	225
alcoholic,	50
skulls and skeletons,	110
Birds—skins mounted and unmounted,	2,000
nests and eggs,	1,600
Reptiles,	600
Amphibians,	200
Fishes,	2,100
Insects—pinned and alcoholic,	6,500
nests, borings, etc.,	50
Crustacea,	1,500
Worms,	1,800

Mollusks—shells,	90,000
alcoholic,	4,000
Echinoderms,	1,000
Cœlentera,	1,700
Sponges and protozoa,	150

DEPARTMENT OF BOTANY.

Plants in herbarium,	11,400
Specimens of wood,	400
Miscellaneous botanical specimens,	1,100

DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks,	22,100
Fossils—Paleozoic,	11,500
Mesozoic,	3,700
Cenozoic,	3,000

DEPARTMENT OF ETHNOGRAPHY.

Miscellaneous ethnographic specimens,	4,400
Coins,	7,000

The museum is open to the public on Wednesday and Saturday afternoons.

FELLOWSHIPS AND SCHOLARSHIPS.

THE SQUIRE FELLOWSHIP.

This fellowship was founded by Hon. Watson Carvosso Squire (B. A., 1859, LL. D., 1911), of Seattle, Wash. It is open to Bachelors of Arts of Wesleyan University or of other colleges. The tenure of the fellowship is one academic year, with the possibility of reappointment for a second year. The income is not less than $400 nor more than $450. The Fellow shall devote himself to advanced study under the direction of the instructors in the department of Greek.

THE RICH FELLOWSHIP.

This fellowship was founded by Mr. William Thayer Rich, of Boston, Mass., a trustee of the University. The income is $450. It is awarded for study in the department of Economics and Social Science.

TUITION SCHOLARSHIPS.

Each year the Trustees place at the disposal of the President, for the benefit of needy and worthy students, a sum of money which is used to pay, in whole or in part, the charge for tuition.

Perpetual scholarships established by Jacob Atkins, John M. Howe, Ralph Mead, Charles C. North, Aaron Sandford, Jr., James Strong, and Charles Woodbury have been transferred by their heirs to the University. These scholarships, which are at the disposal of the President, exempt the holders from the charge for tuition.

In addition to these free tuition scholarships are the following:—

THE LOVELAND SCHOLARSHIP.

This scholarship was founded by Miss Louisa Loveland. The income of $2,737 is available, at the discretion of the Faculty, for the use of a deserving student who needs

pecuniary assistance. For this scholarship only such students as intend to devote themselves to the work of the Christian ministry in the Methodist Episcopal Church can be candidates.

THE JOHN EVANS SCHOLARSHIP.

This scholarship was founded by Mrs. Ann Evans in memory of her husband. The income of $2,182 is given annually to that member of the Senior or Junior class who is named by the Board of Trustees, or by some authority to whom they may delegate the nomination. For this scholarship only such students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates.

SCHOLARSHIP FUNDS.

The income of the following scholarship funds is available, at the discretion of the President, to pay, in whole or in part, the tuition of deserving students who need pecuniary aid:

The Frank S. Jones Scholarship Fund, $1,105, founded by Frank S. Jones, of Brooklyn, N. Y.

The Billings Scholarship Fund, $3,795, founded by William Perry Billings, of Kingston, Pa.

The Shonk Scholarship Fund, $25,994, founded by John J. Shonk and Mrs. George W. Shonk, of Plymouth, Pa., in memory of Hon. George W. Shonk (B. A., 1873).

The Starks Scholarship Fund, $1,114, founded by Mrs. Elizabeth B. Starks, of Troy, N. Y.

The Philip Reynolds Scholarship Fund, $1,113, founded by Philip Reynolds, of Brockton, Mass.

The Connell Scholarship Fund, $3,286, founded by Hon. William Connell, of Scranton, Pa.

The Shepherd Scholarship Fund, $3,243, founded by James G. Shepherd, of Scranton, Pa.

The Swift Scholarship Fund, $17,546, founded by Mrs. Annie M. Swift, of Chicago, Ill., in memory of her husband, Gustavus F. Swift.

The George G. Reynolds Scholarship Fund, $2,675, founded by Hon. George G. Reynolds (B. A., 1841, LL.D., 1871), of Brooklyn, N. Y.

The Cyrus D. Jones Scholarship Fund, $5,273, founded by Cyrus D. Jones, of Scranton, Pa.

The Harriet Townsend Reynolds Scholarship Fund, $2,673, founded by Hon. George G. Reynolds (B. A., 1841, LL. D., 1871), of Brooklyn, N. Y., in memory of his wife.

The Frank Reynolds Scholarship Fund, $2,673, founded by Hon. George G. Reynolds (B. A., 1841, LL.D., 1871), of Brooklyn, N. Y., in memory of his son, who graduated in 1868.

The Abigail Pennoyer Reynolds Scholarship Fund, $2,638, founded by Hon. George G. Reynolds (B. A., 1841, LL.D., 1871), of Brooklyn, N. Y., in memory of his mother.

The Samuel D. Hubbard Scholarship Fund, $10,583, founded by Miss Jennie M. Clarke, of Middletown, in memory of her uncle, Honorable Samuel Dickinson Hubbard, for many years a trustee of Wesleyan University.

The Montgomery Scholarship Fund, $1,037, founded by the Rev. John E. Adams, D. D., of Patchogue, N. Y., trustee of the Jane P. Fitch Benevolent Fund, in memory of Rev. James Montgomery.

The Mead Scholarship Fund, $2,354, founded by Miss Elizabeth J. Mead, of Stamford, in memory of her father, Rev. Nathaniel Mead.

The Lewis Gunn Scholarship Fund, $2,576, founded by Mrs. Mary C. Holman, of Hopkinton, Mass., and Mrs. Lillie G. Smith, of Washington, Conn., in memory of their father, Rev. Lewis Gunn.

The Jane D. Boardman Scholarship Fund, $10,232, founded in memory of Mrs. Jane D. Boardman, of Middletown, by the executors of her estate, Hon. Frank B. Weeks, of Middletown, and Dr. Joseph H. Townsend, of New Haven.

The Walter Hubbard Scholarship Fund, $40,879, founded by Walter Hubbard, of Meriden.

The Butler Scholarship Fund, $5,000, founded by Seth H. Butler and his sons, Abbott G., Earle C., and Dale D. Butler, all of Middletown.

The Alexander Montague Atherton Scholarship Fund, $5,068, founded by Mrs. J. B. Atherton, of Honolulu, Hawaii, in memory of her son, who graduated in 1897.

The Robert Alfred Davison Scholarship Fund, $5,392, founded by George Willets Davison (B. A., 1892), of New York, N. Y., and his wife, Harriet Baldwin Davison, in memory of their son.

The Burr Scholarship Fund, $3,000, founded by W. O. Burr, of Hartford.

LOAN FUND.

Besides the scholarships above mentioned, there is a small fund from which loans are made to deserving students in the Junior and Senior classes. These loans bear a moderate rate of interest and are payable usually after graduation.

COLLEGE HONORS.

PRIZES.

THE PEIRCE PRIZE.—A prize of ten dollars, the income of a fund given by Rev. Bradford K. Peirce, D. D., is awarded for excellence in natural science. It will be given in 1916 upon a special examination based on Course II. in geology. The subject of the examination in 1917 will be chemistry; in 1918, biology.

THE PHI BETA KAPPA PRIZE. — A prize of twenty-five dollars, the gift of the Connecticut Gamma of Phi Beta Kappa, is awarded for excellence in Latin. It will be given in 1916 upon a special examination on the Odes and Epodes of Horace.

THE G. BROWN GOODE PRIZE.—A prize of ten dollars, the gift of Mrs. G. Brown Goode, is awarded for the best original investigation in the department of natural history.

THE JOHN BELL SCOTT PRIZE.—A prize of forty-five dollars, the income of a fund given by the late Charles Scott, is awarded for excellence in the modern languages. It will be given in 1916 to that member of the class in IV. French who shall write in French the best essay on Le Romantisme Français. In 1917 the prize will be given for special work in the department of German.

THE GIFFIN PRIZE.—A prize of twenty dollars, the income of a fund given by Mrs. Giffin in memory of her husband, Rev. Charles Mortimer Giffin, D. D., is awarded for the best essay, by a member of the Senior class who is preparing to enter the Christian ministry or some other form of Christian work, upon some topic in the general field of the philosophy of religion. Originality of style and freshness of thought are considered in making the award. The topic should be chosen in consultation with the Professor of Ethics, and the essay

should be handed to him on or before the third Monday in May (May 15, 1916).

No person who has once taken either the Phi Beta Kappa or the G. Brown Goode prize may compete for it again.

THE CAMP PRIZE.—A prize of twenty-five dollars, the income of a fund given in memory of Samuel T. Camp, is awarded for excellence in English literature. It will be given in 1916 upon a special examination in Course I. in English literature.

THE JOHNSTON PRIZE.—A prize of twenty-five dollars, the gift of Rev. David G. Downey, D. D., in memory of Professor John Johnston, is awarded for excellence in electricity. It will be given in 1916 upon a special examination based on the first half of Course VII. in physics.

THE SPINNEY PRIZE.—A prize of twenty-five dollars is awarded for excellence in Greek. It will be given in 1916 for special work based in part on the first half of Course II. in Greek.

THE RICE PRIZE.—A prize of twenty dollars, given in memory of Rev. William Rice, D. D., is awarded for excellence in mathematics. It will be given in 1916 upon an examination based on Course VII. in mathematics.

THE WALKLEY PRIZE.—A prize of fifty dollars, the income of a fund given by Webster R. Walkley, D.C.L.—*in memoriam* David Hart Walkley, born April 23, 1857; graduated June 27, 1878; died September 16, 1878—is awarded for excellence in psychology. It will be given in 1916 for the best examination on the work of the elementary course in psychology, including the collateral reading.

THE GERALD PRIZE.—A prize of twenty-five dollars, the gift of Herbert Parvin Gerald, B. A., 1882, is awarded for excellence in some special phase of the work in one of the courses in English literature assigned to the Junior year. It will be given in 1916 for the best examination on Course II. in English literature.

Students who compete for either the Camp, the Johnston, the Spinney, the Rice, the Walkley, or the Gerald prize must

do so during the year in which they regularly pursue the course or courses on which the examination for the prize is based.

THE WISE PRIZE.—A prize of twenty-five dollars, the income of a fund given by Rev. Daniel Wise, D. D., is awarded to that member of the Senior class who excels in ethics. It will be given in 1916 to that member of the Senior class who presents the best paper on: The Ethics of the Sophists, with analogies from modern thought: an exposition and a criticism.

THE PRENTICE PRIZE.—A prize of twenty-five dollars, given by the late Mrs. Elizabeth Brooks Prentice in memory of Professor George Prentice, is awarded to that member of the Senior class who excels in German. It will be given in 1916 upon a special examination on the history of German literature from the earliest beginnings to the end of the sixteenth century.

THE SHERMAN PRIZE.—A prize of ten dollars, the income of a fund given by Rev. David Sherman, D.D., is awarded this year to that member of the Freshman class who excels in Latin. It will be given in 1916 upon a special examination designed to test the candidate's acquaintance with the life and writings of Terence. The subject of the examination in 1917 will be Greek; in 1918, mathematics.

THE AYRES PRIZE.—A prize of fifty dollars, the income of a fund given by Daniel Ayres, M. D., LL.D., is awarded to that member of the Freshman class who is found upon a special examination, held shortly after the beginning of the college year, to have attained the highest excellence in the following studies: Latin, Greek, English, ancient history, and mathematics.

THE RICH PRIZE.—A prize of one hundred dollars, the income of a fund given by Isaac Rich, in memory of his wife, is awarded to that member of the Senior class whose oration at Commencement is deemed best in composition and delivery. These orations must not exceed twelve hundred words in length, and must be left with the Professor of English Literature on or before the second Tuesday preceding Commencement (June 6, 1916).

THE OLIN PRIZE.—A prize of ninety dollars, the income of a fund given by Mrs. Julia M. Olin, is awarded to that member of the Senior class who excels in English composition. The subject for the essay of 1916 is: Robert Browning as an Ethical Teacher. The subject for the essay of 1917 is: The Relations of Art and Morality. Essays must be left with the Professor of English Literature on or before the first Monday of the third term (May 1, 1916).

JUNIOR EXHIBITION PRIZE.—A prize of twenty-five dollars is awarded to that member of the Junior class who presents the best oration at the annual Junior Exhibition. In the award of this prize both the composition and the delivery of the oration are considered. The orations must be left with the Professor of the English Language ten days before the date of the Exhibition (February 19, 1916).

THE COLE PRIZE.—A prize of thirty-five dollars, the gift of George Henry Walker, B. S., in memory of Charles Edward Cole, is awarded to that member of the Sophomore class who maintains the highest standing in English composition from the mid-year period of his Freshman year to the end of his Sophomore year.

THE BRIGGS PRIZE.—A prize of seventy dollars, the income of a fund given by James E. Briggs, is awarded to the student who excels in debate. No person who has once taken the Briggs prize may compete for it again.

THE PARKER PRIZE.—A prize of twenty-five dollars, the income of a fund given by Rev. John Parker, is awarded to that member of the Junior or Sophomore class who excels in declamation.

THE HIBBARD PRIZE.—A prize of twenty-five dollars, the gift of Ralph B. Hibbard, Ph. B., in memory of Professor Ralph Guernsey Hibbard, is awarded to that member of the Freshman class who excels in declamation.

The several committees of award will withhold any prize, if, in their judgment, none of the exercises presented in competition for it possess the requisite merit.

AWARD OF PRIZES, 1914-1915.

The Joseph D. Weeks Prize, to BRADFORD DOWNEY, 1916.

The Peirce Prize, to HOMER FRANKLIN CAREY, 1915, and FRANK HARRISON NYE, 1915.

The Phi Beta Kappa Prize, to SAMUEL PRENTICE HOPLEY, 1917.

The John Bell Scott Prize, to MORRIS BLUMER, 1917.

Committee of Award—Professor Clarence Willis Eastman, Ph. D., of Amherst College.

The Giffin Prize, to HAROLD RIDEOUT WILLOUGHBY, 1915.

The Weeks Prize, to BURTON CHARLES BOVARD, 1915.

The Camp Prize, to GEORGE REUBEN POTTER, 1917.

The Johnston Prize, to ROBERT CHESTER MACDONALD, 1916.

The Spinney Prize, to ROBERT MOFFAT HENRY, 1917.

The Rice Prize, to GEORGE WARNER SKILTON, 1917, and YU CHING TU, 1917.

The Walkley Prize, to GEORGE REUBEN POTTER, 1917.

The Gerald Prize, to HERBERT CHESTER SARGENT, 1916.

The Wise Prize, to ROLAND LOUIS LUERICH, 1915.

The Prentice Prize, to RUDOLPH WILSON CHAMBERLAIN, 1915.

The Sherman Prize, to JOHN ELMER CAVELTI, 1918.

The Ayres Prize (for 1915–16), to PAUL BENRIMO, 1919, prepared at the Mount Hermon School.

The Rich Prize, to HAROLD RIDEOUT WILLOUGHBY, 1915. (Honorable mention to WILLIAM BRADFORD MASKIELL, 1915.)

Committee of Award:—Reverend John Brownlee Voorhees, D. D., Principal Clement Collester Hyde, L. H. D., and Anson Theodore McCook, Esq., B. A., LL. B.

The Olin Prize, to JOHN CHENEY WHITE, 1915.

Committee of Award:—Professor Albert Knight Potter, M. A., of Brown University.

The Cole Prize, to GEORGE REUBEN POTTER, 1917, and CARL LEO STEARNS, 1917.

The First Junior Exhibition Prize, to CHARLES LESLIE HAMMOND, 1916.

Committee of Award:—George Burnham, Esq., Dean Samuel Hart, D. D., and Professor Frederick Slocum, Ph. D.

The Second Junior Exhibition Prize, to EARL PLACE STEVENSON, 1916.

Committee of Award:—Same as for the First Junior Exhibition Prize.

The Briggs Prize, to HAROLD ANDREW RICHMOND, 1915.

The Declamation Prize, to FRANCIS WILCOX POTTER, 1917.

Committee of Award:—Mr. Thomas Hoops, Jr., M. Eugene Culver, Esq., M. A., and Professor Karl Pomeroy Harrington, M. A.

The Parker Prize, to HERBERT CHESTER SARGENT, 1916.
Committee of Award:—Same as for the Declamation Prize.

The Hibbard Prize, to HARRY LUDWIG LUERICH, 1918.
Committee of Award:—Same as for the Declamation Prize.

The Taylor Prize, to FRANK DOUGLAS HARRIS, 1918.

APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The Junior Exhibition is held on the second Tuesday evening in March (March 14, 1916). The speakers, six in number, are selected from the Junior class according to their grade in composition subsequent to the Freshman year, and by means of a special contest in declamation. The selection of speakers for Commencement is determined as follows. Members of the Senior Class seeking appointment to speak at Commencement hand in two essays each; from the sixteen competitors whose work is adjudged to be of the highest merit, eight are selected by means of a contest in declamation.

The speakers last year were:—

JUNIOR EXHIBITION.

Kingman Packard Cass,
George Bartlett Curtis,
Charles Leslie Hammond,
George Shelton Hubbell,
Eldon Hubert Martin,
Earl Place Stevenson.

COMMENCEMENT.

Charles Daniel Brodhead,
Daniel Ostrander Ferris,
William Bradford Maskiell,
John Wesley Prince,
Joseph Atherton Richards,
Harold Rideout Willoughby.

HONORS IN SCHOLARSHIP.

I. HONORS IN GENERAL SCHOLARSHIP. — Two grades of honor, designated respectively as honors and high honors, are conferred at graduation, based upon the general scholarship of the student throughout his whole course.

An honor in general scholarship is awarded to a student who has received a grade not below third on an aggregate of not less than 56 hours' work, as reckoned in the record of standings, has received first grade on a number of hours' work not less than the part of the 56 hours' work on which he has received third grade, and has not fallen below fourth grade in any study of the course.

A high honor in general scholarship is awarded to a student who has received a grade not below second on an aggregate of not less than 56 hours' work, has received first grade on an aggregate of not less than 46 hours' work, and has not fallen below third grade in any study of the course.

II. PRELIMINARY HONORS. — Preliminary honors are awarded in the departments of classics and of mathematics at the end of the Sophomore or Junior year, and no student can receive special honors at graduation in Greek, Latin, or mathematics who has not previously received the corresponding preliminary honors. Notice of candidacy for preliminary honors must be given to the senior officer of the department, and to the Secretary of the Faculty, as early as the first Monday of the third term of the year in which the candidate intends to present himself for the special examination (May 1, 1916). The case of each candidate is decided by

the Faculty. The special regulations concerning the award of preliminary honors are as follows:—

Classics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade, in the following courses:—I., II., and either III. or IV. Greek, and I., I.A, two of Courses II.–V., and any one of Courses VI., XVI., and XVII. in Latin.

2. He must also pass with distinction a special examination, held near the end of the academic year, and designed to test *(a)* his ability to translate Greek and Latin into English at sight, and *(b)* his knowledge of Greek and Latin grammar, and of Greek and Roman antiquities, mythology, and political and literary history.

Mathematics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade, in such courses in mathematics, amounting to not less than nine hours a week, as may be approved by the head of the department.

2. He must pass with distinction a special examination held near the end of the academic year, which may cover the entire field of his mathematical knowledge.

III. HONORS IN SPECIAL DEPARTMENTS AT GRADUATION.—Two grades of special honor, designated respectively as honors and high honors, are awarded at graduation in each of the following departments:—

Latin; Greek; German; Romance Languages; English; History; Economics and Social Science; Philosophy; Mathematics; Physics; Chemistry; Geology; Biology.

The conditions upon which special honors in these departments are awarded are as follows:—

(1) The candidate must apply to the officer in charge of the department in which he desires to take honors, and to the Secretary of the Faculty, not later than the first Monday of the third term in the Junior year (May 1, 1916).

(2) He must pass at the regular or special examinations in such studies of the college course as are prescribed for honors in the several departments in the schedule given below; and in such studies he must not fall below third grade, and must maintain an average standing of second grade after the

beginning of the Sophomore year, or must receive first grade in all of the prescribed studies which he takes after the beginning of the Junior year.

(3) In addition to the studies regularly prescribed in the schedule below, the candidate must pursue such a course of collateral reading or investigation as is prescribed by the officer in charge of the department, with the approval of a committee of the Faculty. The evidence of his proficiency in this collateral course is given by an examination, oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as may be prescribed by the officer of the department, with the approval of a committee of the Faculty. The case of each candidate is decided by the Faculty.

(4) In addition to other requirements, every candidate for special honors is required to pass a *general examination* covering the entire field of his knowledge in the department in which the honor is given. This examination is oral, and is conducted in the presence of a committee of the Faculty.

(5) No student is awarded special honors who fails to pass in any study of the last two years of the course.

(6) No examination for special honors is given, and no thesis or other work in preparation for special honors is received, after the second Saturday preceding Commencement (June 10, 1916).

The conditions upon which high special honors are awarded are the same as for special honors, with the addition of the following requirements:—

The candidate must receive first grade in all of the prescribed studies which he takes after the beginning of the Sophomore year, and his examinations and other tests must show an exceptionally clear and comprehensive understanding of the studies of the department, and give promise of capacity for independent work.

The following schedule gives the studies required of candidates for special honors in the several departments:—

Latin.—1. So many of the courses in Latin as will amount in the aggregate to not less than sixteen hours a week.

2. Courses I., II., and either III. or IV., in Greek.

[Candidates for special honors in Latin at graduation are requested to announce their candidacy as early as the beginning of the Junior year.]

Greek. — 1. Courses I.–VII. in Greek, and not less than three hours in courses approved by the Committee on Special Honors.

2. Courses I., I.A, and two of Courses II.–V., in Latin.

German.—1. Courses I.–IV., IX.–XII., and one of Courses V., VI., and VII., in German.

2. Courses I. and II. in French.

3. Course I. in English literature, or Course V. in English language.

Romance Languages.—1. Courses I.–VI. in French, and any two other courses in Romance languages.

2. Courses I. and II. in German.

English.—1. The required courses in English, including composition.

2. One of the following groups of elective courses:—

(a) Five courses in English literature; Course IV. or Course V. in English language; two courses in French, or two courses in German.

(b) Four courses in English language; two courses in English literature; two courses in German and one course in French, or two courses in French and one course in German.

History.—1. All the courses in history.

2. Any three courses in economics and social science.

Economics and Social Science.—1. All the courses in economics and social science.

2. Course I., and either Course VII. or Course VIII., in history.

Philosophy.—1. All the courses in philosophy.

2. Courses I., II., and VI. in ethics and religion.

3. Courses I. and III. in psychology.

Mathematics.—1. Courses in mathematics and astronomy amounting in the aggregate to not less than nineteen hours a week.

2. Course I. in physics.

[Prospective candidates for special honors in mathematics at graduation are advised to take Course VII. in mathematics in the Sophomore year.]

Physics.—1. Course I. in physics.

2. Two years of practical physics, amounting in the aggregate to not less than five hours a week.

3. Not less than the equivalent of nine hours per week for a year, chosen from Courses III., IV., V., VI., VII., IX., and X. in physics, and Course XIII. in mathematics.

4. Courses I. and II. in chemistry.

5. Course VII. in mathematics.

Chemistry.—1. Courses I.–III., IV. (three periods), V., and VIII. in chemistry.

2. *(a)* Courses VII., IX., and XIV. in chemistry, Course VII. in mathematics, Course I. in physics, and one year of practical physics; or *(b)* Courses X., XII., and XIII. in chemistry, and Courses IV., VI., and VIII. in biology.

Geology.—1. Courses I.–VI. in geology.

2. The course in descriptive astronomy.

3. Courses II. and III. in biology.

4. Not less than two of the following courses:—V., VIII., and IX. in biology, II. and III. in chemistry, and IV. in physics.

Biology.—1. Courses I.–IV. in biology.

2. Two years of practical biology (in at least one of which there shall be three exercises a week).

3. Courses I. and II. in geology.

4. Course I. in chemistry.

5. Either Courses II. and III. in chemistry, or Course IV. in geology.

[Candidates for special honors in biology are recommended to take at least one summer course in a marine laboratory.]

In all cases in which the foregoing schedule allows option between two or more courses or groups of courses, the student's selection is subject to the approval of the head of the department in which he desires to take honors.

In special cases a candidate for honors may be allowed to substitute other courses for those named in the foregoing

schedule, by vote of the Faculty, on recommendation of the head of the department.

An honor of any of the kinds and grades mentioned may be conferred on a student sufficiently meritorious, by vote of the Faculty, even though his record of standing does not completely fulfill the requirements stated above.

The names of those students who take preliminary honors are announced at Commencement.

The names of students who take honors at graduation, whether general or special, are printed on the Commencement program.

AWARD OF HONORS.

COMMENCEMENT, 1915.

HONORS IN GENERAL SCHOLARSHIP.

HIGH HONORS.

Rudolph Wilson Chamberlain,
Michael Gerome,
Robert Elwood Moore,
Harold Andrew Richmond,
Harold Rideout Willoughby.

HONORS.

Charles Daniel Brodhead,
Homer Franklin Carey,
Edward Carleton Gibbons,
Frederick Hupman Hotchkiss,
Austin Hubbert Kuhns,
William Bradford Maskiell,
Parker Newhall,
Frank Harrison Nye,
John Wesley Prince,
Joseph Atherton Richards,
Edward Warren Sine,
Harold Robert Smart,
Hugh Llewellyn Smith,
Francis Bourne Upham, Jr.,
John Cheney White,
Henry Hopkins Wright.

HONORS IN SPECIAL DEPARTMENTS.

HIGH HONORS.

GREEK.

Harold Rideout Willoughby. Thesis: "The Interpretation of Euripides' Alcestis, with Special Reference to Balaustion's Adventure by Robert Browning."

HONORS.

GERMAN.

Rudolph Wilson Chamberlain. Thesis: "Friedrich Hebel's Conception of the Tragedy."

DEGREES.

The following degrees are conferred by the University in course: Bachelor of Arts (B. A.), Bachelor of Science (B. S.), Master of Arts (M. A.), Master of Science (M. S.).

THE BACHELOR'S DEGREE.—The degrees of Bachelor of Arts and of Bachelor of Science are conferred on those who have met the requirements for admission to the respective courses as set forth on page 34, and have taken the required quota of studies in college, as prescribed on pages 106–108.

The baccalaureate degree is awarded *summa cum laude* to a student who takes high honors both in general scholarship and in one or more departments; *magna cum laude*, to a student who takes a high honor either in general scholarship or in one or more departments; *cum laude*, to a student who takes an honor either in general scholarship or in one or more departments.

THE MASTER'S DEGREE.—The degrees of Master of Arts and of Master of Science are conferred in accordance with the following regulations:—

1. The degree of Master of Arts is conferred upon Bachelors of Arts of Wesleyan University, of at least one year's standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued in residence for a period of not less than one year.* This course of study is under the

* Candidates for the Bachelor's degree who satisfy the requirements for honors in general scholarship may in their Senior year be admitted to candidacy for the Master's degree, provided that the amount of their undergraduate work remaining to be completed at the close of the September special examinations does not exceed three hours. Except by express permission of the Committee on Graduate Instruction, their undergraduate work must satisfy the group requirement in such manner that they are free to elect the remaining three hours in the department or departments in which they intend to do graduate work. Such candidates shall not be members of any athletic or debating teams, musical or dramatic organizations, or take part in any similar undergraduate activity. This rule, however, does not necessarily debar them from competing for any prize for which they would be eligible as undergraduates. The entire work of these candidates is under the direction of the Committee on Graduate Instruction. The Master's degree will not be conferred upon them until the Commencement succeeding that at which the Bachelor's degree has been conferred.

full direction of the Committee of the Faculty on Graduate Instruction, composed of three permanent members with the addition of the instructor in charge of each department in which the candidate pursues work.

Bachelors of Philosophy of Wesleyan University who apply for the Master's degree are eligible for the degree of Master of Arts.

2. In the case of Bachelors of Arts of other colleges whose course of study is accepted by the Committee on Graduate Instruction, or who pass such additional examinations as the Committee may prescribe, the degree of Master of Arts is conferred on the conditions prescribed in the case of Bachelors of Arts of Wesleyan University.

3. The degree of Master of Science is conferred upon Bachelors of Science of Wesleyan University, and upon graduates of other colleges holding an equivalent degree, under the same conditions which govern in the case of the degree of Master of Arts.

4. Bachelors of Science of Wesleyan University, and graduates of other colleges holding a Bachelor's degree other than that of Bachelor of Arts, who pass such examinations in Greek or Latin, and in other literary studies, as the Committee on Graduate Instruction may prescribe, are admitted to the degree of Master of Arts on the conditions prescribed in the case of Bachelors of Arts.

5. A fee of five dollars is required of every candidate for the Master's degree at his enrolment, and a fee of ten dollars is required before the degree is conferred. Both fees are payable to the Assistant Treasurer of the University.

6. Evidence of the candidate's proficiency in the approved course of study is given in one or more of the following ways, as the Committee may prescribe: *(a)* by examinations, oral or written; *(b)* by a thesis; *(c)* by the exhibition of scientific specimens, preparations, or processes. All such tests of proficiency are under the direction of the Committee, and they report to the Faculty proper candidates for the degree.

In addition to these regulations of the Trustees, the Committee on Graduate Instruction has from time to time adopted standing rules of procedure, among which the following should be noted as specially important:—

Whatever other tests of proficiency may be prescribed, each candidate for the Master's degree is required to pass an oral examination in the presence of the Committee, upon the whole, or a previously specified part, of his course of study.

All examinations of candidates for the Master's degree are conducted at the University.

Unless the Committee, for important reasons, determines otherwise in some specific case, no examinations will be given (except in regular college courses), and no thesis or other work prescribed in preparation for the degree will be received, later than the second Saturday before Commencement in the academic year in which the candidate desires to be recommended for the degree (June 10, 1916).

A complete statement of these rules may be obtained by applying to the Secretary of the Committee on Graduate Instruction (in care of the Office of the University, South College), to whom also all communications from prospective candidates should, in the first instance, be addressed.

DEGREES CONFERRED, JUNE 21, 1915.

DEGREES IN COURSE.

The Degree of Bachelor of Arts was conferred on:

Frederick Raymond Alleman,
Frank Lawrence Beattys,
Burton Charles Bovard,
Charles Daniel Brodhead,
Harold Arthur Burrell,
John William Busch,
Homer Franklin Carey,
Robert Valden Cassidy,
Rudolph Wilson Chamberlain,
Arthur Randall Davis,
James Holmes Defandorf,
Arthur Clark Eaton,
Joseph William Fosa,
Elon Foster,
Michael Gerome,
Edward Carleton Gibbons,
Frank Thorpe Gorman,
Walling Evart Harvey,
Wilmer Edgar Herr,
Elias Wells Hockenbury,
Clarence Ketcham,
Austin Hubbert Kuhns,
Roland Louis Luerich,
William Bradford Maskiell,
Ralph Achilles Mautone,
Robert Elwood Moore,
Parker Newhall,
Edward Fenn Nourse,
Frank Harrison Nye,
David Manker Patten,
Howard Kistler Petry,
Louis Wetherbee Pitt,
Albert Irving Prince,
John Wesley Prince,
Joseph Atherton Richards,
Harold Andrew Richmond,
Daniel Mannix Rowe,
Edward Warren Sine,
Charles Francis Stanley,
Paul Randolph Sutherland,
Charles Hatfield Taft, Jr.,
James Adams Thompson,
Francis Bourne Upham, Jr.,
Leslie Vanderbilt,
Howard Boniwell Warren,
Oakley Emerson Washburn,
John Cheney White,
Harold Rideout Willoughby,
John Howard Withey,
Paul Mortimer Young.

The Degree of Bachelor of Science was conferred on:

Willard Robert Bell,
Read Hess Brown,
Paul Preston Martin,
Charles Nathan Rudkin,

Otto Carpenter,
Daniel Ostrander Ferris,
William Gammon Greenman,
Frederick Hupman Hotchkiss,
Charles Johnson,
Dan Cummins Kenan,
Robert Chipman Kneil,
Harold Robert Smart,
Hugh Llewellyn Smith,
William Sherman Smith,
Walter Richey Stillman,
Fred Robert Strasburg,
Joseph Aubrey Sutton,
Henry Hopkins Wright.

The Degree of Bachelor of Arts, nunc pro tunc, was conferred on:

Charles DeWitt Marcy, of the class of 1865.

The Degree of Master of Arts on examination was conferred on:

Alonzo Clark Allen, B. A., 1914. Subjects: Ethics, Philosophy, and Psychology. Thesis: "The Development of the Concept of God in the Bible."

William George Chanter, B. A., 1914. Subject: English Literature. Thesis: "Robert Browning's Philosophy of Religion."

Howard Reid Craig, B. A., 1914. Subject: Biology. Thesis: "The Fixation of Complement."

Leo Gilbert Cummings, B. A. (Clark College), 1913. Subjects: Physics and Mathematics. Thesis: "The Propagation of Electric Waves."

Ernest Raymond Dodge, B. A., 1914. Subject: German. Thesis: "Wilhelm Meister—Goethes Ebenbild."

Raymond Vincent Hayward, B. A., 1914. Subjects: Romance Languages and German. Thesis: "Origin and Development of Romanticism in French Literature."

Brewster Hawkins Jones, B. A., 1914. Subjects: Greek and Latin. Thesis: "A Study of Archelaus."

Rosa Mary Palladino, B. A., 1909. Subject: French. Thesis: "Les Ecoles Classique et Romantique dans la Littérature Française."

Arthur Fiske Potter, B. A., 1914. Subjects: Mathematics and Economics. Thesis: "An Historical Development of the Hypergeometric Function."

Albert Sears Pruden, B. A., 1914. Subjects: Greek and Latin. Thesis: "A Comparison of the Rhetoric and Ethics of Aristotle."

Harold Abbott Wooster, B. A., 1914. Subjects: History and Economics. Thesis: "The Beginnings of the Waterloo Campaign through 17 June."

The Degree of Master of Science on examination was conferred on:

Russell Irving Garton, B. S., 1914. Subject: Biology. Thesis: "Cancer and its Etiology."

Ira Davis Joel, B. S., 1914. Subject: Biology. Thesis: "Relation of the Dairy Score to the Quality of the Milk."

Clinton Bedford Ogilvie, B. A. (Clark College), 1913. Subject: Chemistry. Thesis: "The Behavior of Certain Carbocyclic Compounds with Concentrated Sulphuric Acid."

HONORARY DEGREES.

The Degree of Master of Arts was conferred on:

Archibald Clinton Harte, B. A., 1892.

The Degree of Doctor of Divinity was conferred on:

Edgar Blake, Corresponding Secretary of the Board of Sunday Schools of the Methodist Episcopal Church.

Charles Perley Tinker, B. A., 1889.

The Degree of Doctor of Science was conferred on:

Irving Samuel Haynes, Ph. B., 1885.

The Degree of Doctor of Laws was conferred on:

Charles Reynolds Brown, Dean of the Yale School of Religion.

William North Rice, B. A., 1865, Professor of Geology, 1867–

PUBLICATIONS.

ALUMNI RECORD.—Through the liberality of Orange Judd, M. A., a Biographical Record of the Alumni of the University was published in 1869. A fourth edition of this Record, revised and corrected, was issued in June, 1911. This edition contains not only the record of alumni, revised and corrected to the date of publication, but also a list of all former students not graduates, with their residences, and such other information with reference to them as the most thorough search could obtain. It includes also a brief account of the honorary alumni and the members of the Faculty not graduates of Wesleyan. Copies of this edition may be had upon application to the librarian, W. J. James. The price of the Record, postage prepaid, is $2.00 (paper), $2.50 (cloth).

Information in regard to changes of address of alumni or non-graduates, or in regard to any other facts suitable for future editions of the Record, is earnestly solicited. All who can furnish such information are requested to communicate with Professor F. W. Nicolson, Secretary of the Faculty.

WESLEY BICENTENNIAL.—A memorial volume was issued early in 1904 containing a full record of the celebration of the bicentennial anniversary of the birth of John Wesley by Wesleyan University at the Commencement of 1903. The book was printed by Theo. L. DeVinne & Co., of New York. It contains over 250 pages, and includes a general account of the celebration, the full text of all the addresses delivered, and an appendix giving the names of all committees, of the invited guests who were present, of all recipients of degrees, honorary and in course, and of nearly six hundred alumni who attended the celebration. It is illustrated also with several pictures of the college buildings and grounds, with two excellent portraits of John Wesley, and with portraits of the principal speakers. Applications for the memorial volume should be sent to the Librarian of Wesleyan University. Price $1.50, postage prepaid.

SEVENTY-FIFTH ANNIVERSARY.—A memorial volume, descriptive of the celebration of the seventy-fifth anniversary of the founding of Wesleyan University, held during the Commencement week of 1906, was published in June, 1907. The volume contains a full account of all the proceedings, including the text of all the addresses, a list of the alumni attending the celebration, a list of degrees conferred, etc., and is illustrated with pictures relating to the history of the University. The historical address by Professor William North Rice and the pictures of the college, old and new, are of peculiar interest to all former students. The volume is published in a form in keeping with the interesting and valuable record it contains. Applications for the memorial volume should be sent to the Librarian of Wesleyan University. Price $1.00, postage prepaid.

INSTALLATION VOLUME.—A volume entitled The Installation of William Arnold Shanklin, L. H. D., LL. D., as Ninth President of Wesleyan University, was published in 1910. Besides an introductory account of the exercises, the book contains a verbatim report of all the speeches delivered at the various exercises of the day, reproductions of all programs and other printed matter connected with the occasion, and lists of the trustees, Faculty, delegates, invited guests, and alumni who were in attendance. A portrait of President Shanklin forms the frontispiece. The volume contains 154 pages and is neatly bound in dark red cloth. Copies may be obtained from the Librarian of the University at one dollar each.

BULLETIN.—The *Bulletin* was first issued in 1888, and has since been published twice a year (usually in May and December), under the direction of a committee of the Faculty. It contains accounts of trustee and alumni meetings, lists of recent gifts, statements of the most urgent needs of the University, changes in the Faculty and courses of study, department notes, and various other matters of interest to the alumni and friends of the institution. It is sent to the trustees and alumni, and may be obtained by other friends of the University upon application to the Secretary of the Faculty.

PICTURE OF THE COLLEGE.—A photogravure in sepia, fifteen by twenty-eight inches, showing the college campus and most

of the college and fraternity buildings, has been published by W. T. Littig & Co., of New York. The college has a number of copies of the picture for sale to alumni and others. Price $5.00 each. Orders should be sent to Professor F. W. Nicolson, Secretary of the Faculty.

NECROLOGY.—A list of deceased graduates of the University is published annually in the Spring *Bulletin*. All persons who can supply information for future lists are urgently requested to communicate the same to Professor F. W. Nicolson, Secretary of the Faculty.

EMPLOYMENT BUREAU.

An employment bureau is maintained in the office of the Secretary of the Faculty, for the purpose of securing positions as teachers for graduates of the college. Those who wish to avail themselves of the opportunity thus offered are invited to register; and the alumni and friends of the college are urgently requested to inform the Secretary of any vacancy coming to their notice which might be filled by a Wesleyan graduate.

An employment bureau is maintained by the Young Men's Christian Association through which needy undergraduates are aided in securing employment during the college year and the summer vacation. Those who wish to avail themselves of this opportunity are invited to register. Alumni and friends of the college are requested to inform the General Secretary of any vacant positions which might be filled by Wesleyan men. No fees are charged in either bureau.

THE ALUMNI COUNCIL.

The Alumni Council is composed of representatives elected by the thirty-five classes last graduated, and of ten members at large, elected by the Council, none of whom may be members of the Board of Trustees or of the Faculty of Wesleyan.

This basis of organization makes the Council fairly representative of the entire body of the alumni and, at the same time, gives it a distinctive character, naturally sympathetic with the administration and with the undergraduates, yet independent of both, and with a view-point of its own.

The object of the organization is to strengthen the relations of the alumni and the University, and to bring all Wesleyan graduates and non-graduates into one compact body working for the interests of the institution.

The Council maintains an office in Room 2, East Hall, with an efficient equipment at the service of the alumni, and headquarters at 38 Bleecker Street, New York, N. Y., thus providing a ready means of communication among the alumni themselves, and between the alumni, the undergraduates, and the authorities of the college.

OFFICERS AND MEMBERS OF THE COUNCIL, 1915-16.

PRESIDENT.

W. A. Jones, '81, Newark, N. J.

SECRETARY

W. F. Sheldon, '99, Room 2, East Hall, Middletown, Conn.

EXECUTIVE COMMITTEE (Chairmen of Standing Committees).

A. B. Carrington, '76,	Finance.
B. M. Gallien, '82,	Class Records and Organization.
W. W. Thompson, '90,	Publicity.
F. W. Frost, '94,	Alumni Associations.
K. M. Goode, '04,	Undergraduate Activities.
R. W. Rice, '08,	Preparatory Schools.

MEMBERS AT LARGE.

A. B. Carrington, '76,
W. D. Leonard, '78,
E. L. Steele, '94,
V. B. Swett, '96,
W. F. Sheldon, '99,
C. L. Newton, '02,
K. M. Goode, '04,
G. I. Bodine, Jr., '06,
H. J. Conn, '08.

CLASS REPRESENTATIVES.

CLASS.		CLASS.	
1880	A. W. Harris,	1898	
1881	W. A. Jones,	1899	J. E. Tackaberry,
1882	B. M. Gallien,	1900	C. E. Johnston,
1883	J. W. Maynard,	1901	R. H. Jones,
1884	G. M. La Monte,	1902	R. A. Anderson,
1885	F. W. Clarke,	1903	H. B. Shonk,
1886	G. A. Rich,	1904	L. B. Day,
1887	E. S. Ninde,	1905	C. H. Tryon,
1888	W. M. Cassidy,	1906	A. K. Dearborn,
1889	S. V. Coffin,	1907	O. F. McCormick,
1890	W. W. Thompson,	1908	R. W. Rice,
1891	G. L. Plimpton,	1909	H. S. Griffing,
1892	N. C. Hubbard,	1910	H. B. Merritt,
1893	G. H. Blakeslee,	1911	L. A. Maynard,
1894	F. W. Frost,	1912	H. V. Leonard,
1895	F. T. Kurt,	1913	S. W. Murphy,
1896	W. H. Burgwin,	1914	W. G. Chanter,
1897	F. R. North,	1915	F. B. Upham, Jr.

ALUMNI ASSOCIATIONS.

GENERAL ALUMNI ASSOCIATION.

President—LeRoy Mason Beeman, '95, New York, N. Y.
Corresponding Secretary—William John James, '83, Middletown.

WESLEYAN ALUMNI CLUB OF NEW ENGLAND.

President—John Walter Saxe, '85, Boston, Mass.
Secretary—Walter Creighton Brown, '03, 95 Milk St., Boston, Mass.

WESLEYAN UNIVERSITY CLUB OF NEW YORK.

President—David George Downey, '84, New York, N. Y.
Secretary—Henry Virginius Leonard, '12, 45 E. 17th St., New York, N. Y.

WESLEYAN UNIVERSITY ALUMNI CLUB OF NORTHEASTERN PENNSYLVANIA.

President—John Evan Jenkins, '91, Wilkes-Barre, Pa.
Secretary—Wesley Morton Davis, '11, 153 South Maple Ave., Kingston, Pa.

WESLEYAN ALUMNI ASSOCIATION OF NEWARK AND VICINITY.

President—William Francis Little, '92, Elizabeth, N. J.
Secretary—Anton Frederick Haus, '12, 339 Stiles St., Elizabeth, N. J.

PHILADELPHIA WESLEYAN ALUMNI ASSOCIATION.

President—Charles Scott, Jr., '86, Philadelphia, Pa.
Secretary—Frank Chaplain Brodhead, '11, 201 Mulberry St., Bristol, Pa.

WESLEYAN ALUMNI ASSOCIATION OF THE MIDDLE WEST.

President—Merle Bowman Waltz, '95, Chicago, Ill.
Secretary—Carl Roland Yanson, ex-'08, 10 South La Salle St., Chicago, Ill.

WESLEYAN ALUMNI CLUB OF SOUTHERN CALIFORNIA.

President—Charles Melville Parker, '68, Pasadena, Cal.
Secretary—Ernest Perley Clarke, '85, Riverside, Cal.

WESLEYAN ALUMNI ASSOCIATION OF MAINE.

President—Francis Lambert Thornberry, '05, Waterville, Me.
Secretary—Robert Gray Goodman, '06, Y. M. C. A., Augusta, Me.

WESLEYAN ALUMNI ASSOCIATION OF WASHINGTON, D. C.

President—Martin Augustine Knapp, '68, Washington, D. C.
Secretary—George Wood Vinal, '06, Bureau of Standards, Washington, D. C.

WESLEYAN ALUMNI CLUB OF EASTERN NEW YORK.

President—Robert Edwin Nivison, '00, Schenectady, N. Y.
Secretary—Leon Hilliard Curtice, '08, General Electric Co., Schenectady, N. Y.

WESLEYAN ALUMNI CLUB OF WATERBURY.

President—William Percival Ogden, '01, Waterbury.
Secretary—George Albert Williams, ex-'97, Waterbury.

WESLEYAN ALUMNI CLUB OF WESTERN NEW YORK.

President—William Burt, '79, Buffalo, N. Y.
Acting Secretary—Edgar Watters Wallis, '12, Central Y. M. C. A., Buffalo, N. Y.

WESLEYAN ALUMNI CLUB OF DETROIT.

President—Frederick Wright Robbins, '80, Detroit, Mich.
Secretary—Charles Albert Goodwin, '14, Y. M. C. A., Detroit, Mich.

WESLEYAN ALUMNI CLUB OF CINCINNATI.

President—Levi Gilbert, '74, Cincinnati, Ohio.
Secretary—Ralph Welles Keeler, '04, 220 W. 4th St., Cincinnati, Ohio.

WESLEYAN ALUMNI ASSOCIATION OF ROCHESTER, N. Y.

President—James Halstead Boucher, ex-'74, Rochester, N. Y.
Secretary—Miller Robert Adolph Bernhard, '13, Rochester, N. Y.

CONNECTICUT ALUMNI ASSOCIATION.

President—Lewis Edward Gordon, '94, Hartford.
Secretary—Samuel Fuller Crowell, '02, 64 Pearl St., Hartford.

CALENDAR.

1915.

Sept. 23. Thursday, 9 A. M.—First term begins.
Nov. 25. Thanksgiving day, a holiday.
Dec. 17. Friday—First term ends.
Last day for presenting applications for winter special examinations.

CHRISTMAS RECESS.

1916.

Jan. 4. Tuesday—Second term begins.
Jan. 24–Feb. 5. Mid-year examinations.
Feb. 19. Saturday—Last day for presenting Junior Exhibition essays.
Feb. 22. Tuesday—Washington's Birthday, a holiday.
Mar. 14. Tuesday—Junior Exhibition.
April 18. Tuesday—Second term ends.
Last day for presenting applications for spring special examinations.

SPRING RECESS.

April 26. Wednesday—Third term begins.
May 1. Monday—Last day for presenting Olin Prize essays.
May 1. Monday—Last day for presenting applications for preliminary and special honors.
May 15. Monday—Last day for presenting Giffin Prize essays.
May 30. Tuesday—Memorial Day, a holiday.
June 2. Friday—Annual examinations begin.
June 6. Tuesday—Last day for presenting Rich Prize essays.
June 10. Saturday—Last day for presenting special honor theses, and for special honor examinations.
June 10. Saturday—Last day for presenting Masters' theses, and for examinations for the Master's degree.

June 15. Thursday—Prize declamation contest.
June 17. Saturday morning—Business meeting of the Alumni Association.
June 17. Saturday morning—Meeting of the Board of Trustees.
June 17. Saturday morning—Class Day exercises.
June 18. Sunday morning—Baccalaureate sermon.
June 18. Sunday evening—University sermon.
June 19. Monday morning—COMMENCEMENT.
June 19. Monday afternoon—Annual meeting of the Phi Beta Kappa Society.
June 19. Monday afternoon—Social receptions by the college fraternities.
June 19–24. Examinations of College Entrance Examination Board.

VACATION OF THIRTEEN WEEKS.

Sept. 19. Tuesday—Fall special examinations begin.
Sept. 20–21. Examination of candidates for admission.
Sept. 21. Thursday, 9 A. M.—First term begins.

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